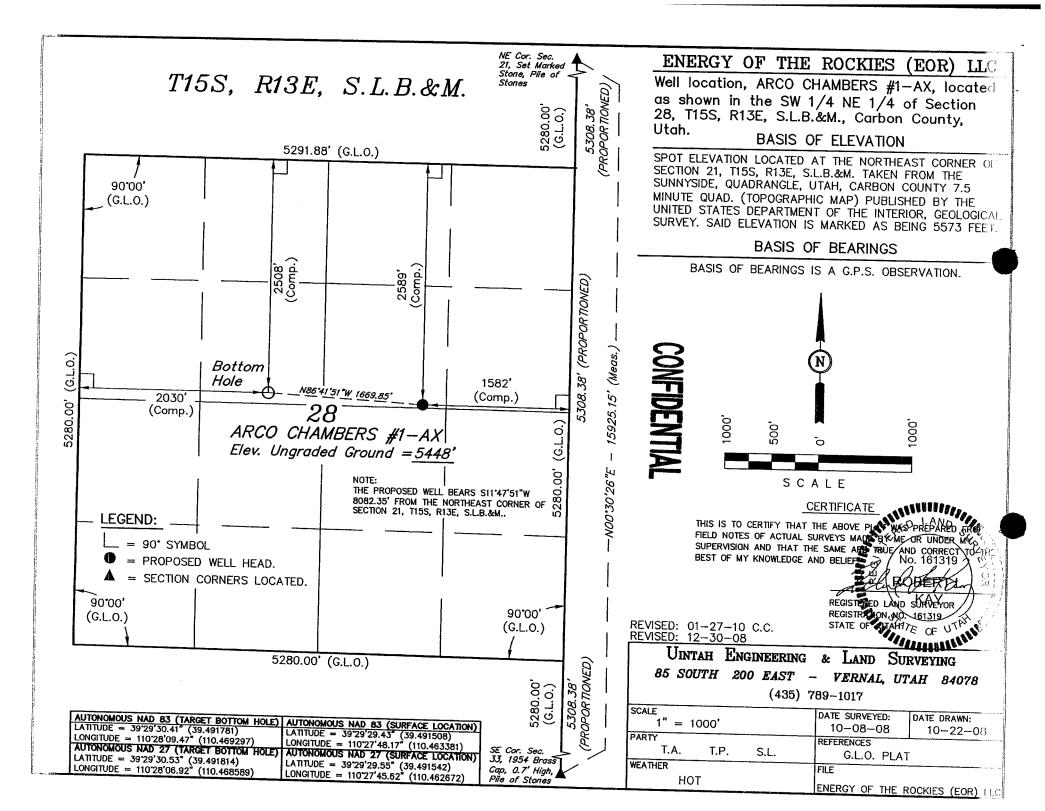
Form 3160-3					<i></i>			
(August 2007) UNIT					₹	FOR	M APPROVE	D
DEPARTMENT OF THE INTERIOR	DI	20	1/IF				B No. 1004 - 01	
BUREAU OF LAND MANAGEMEN	IT HI	G S	KIL)		Expi	res July 31, 20	10
APPLICATION FOR PERMIT TO DRILL OR REF	EXTEÉD					5. LEASE SERIA	L No: U	TU-77855
ATTECATION FOR TERMIT TO DRILL OR REP	ENIEK					6. IF INDIAN, AL	LOTTEE OR T	RIBE NAME:
	-					7. IF UNIT or CA	AGREEMENT	NAME AND NO
1a. Type of Work DRILL X R	EENTER					i	lander	THE PART HO.
	·· - ··					8. LEASE NAME		`
1b. X OIL GAS OTHER X Si	ingle Zone		М	ultiple Zone			CHAMBERS	
2. NAME OF OPERATOR: ALKER EXPLORATION LLC	_ _					9. API WELL NO.		
Energy of the Rockies LLC						43		31518
3a. ADDRESS OF OPERATOR 97 North Main Street		3Ь.	435.8	35.4248	Office	10. FIELD AND P		
Manti Utah	84642	PHONE	435.3	40.0557	Mobil		EXPLORA [*]	TORY
4. LOCATION OF WELL (Report location clearly and in accordance with any State requ	uirements*)					11. SEC., T.R.	M. or BLK A	ND SURVEY OR AREA
At Surface 2589 FNL & 1582 FEL Horizontal						28-T15S	-R13E	
BHL 2508' I	FNL, 203	30' FW	/L			<u> </u>		
At proposed prod. Zone Moenkopi 14. Distance in miles and direction from nearest town or post office*								
+/- 7 MILES SW OF EAST CARBON CITY, UTAH						12. County or I		13. State
15. DISTANCE FROM PROPOSED*	-	16. No. of	faoras in	logge	17 0	CARBO		Utah
LOCATION TO NEAREST Lease 1500 ft.		10. 100. 01	i acres in	lease	17. Spacin	g Unit dedicated	to this well	
property or lease line, ft.	J	67	98			Not Againmad		
(Also to nearest drig, unit line, if any)		07.	70			Not Assigned		
18. Distance from proposed location*		19. Propo	osed De	pth	20. BLM/F	BIA Bond No. on	file	
to nearest well, drilling, completed, +/-7 miles from EDP #1		450			DO. DENVE	UTB-0		
applied for, on this lease, ft.								
21. Elevations (Show whether DF, KDB, RT,GL, etc.)		22. Appro	ximate da	ate work will	start*	23. Estimated du	ration	
5452 ft, GL			Augus	st 15th, 2	T I	30 days		
24. At	ttachment	ts						
	<u> </u>							11
The following, completed in accordance with the requirements of Onshore Oil	and Gas No	o.1, must	be attac	hed to this t	form:			4L
Well plat certified by a registered surveyor.	1.	4						
2. A Drilling Plan.				he operatio	ns unless	covered by an	existing bond	d on file (see
3. A Surface Use Plan (if the location is on National Forest Lands, the		item 20 a 5. Operat	•	cation				
SUPO must be filed with the appropriate Forest Service Office).		•			ormation s	and/or plans as	may be requi	irod by the
		BLM		opcomo min	Jimation e	androi plans as	may be requ	ned by the
25. Signiture	Name (P	rinted/T	vpe)			Ir	Date	
		en J. Lui					2/4/20	10
Stend Court								
Title //								
Petroleum Engineer	gr vyská jeddit. St	والمستهدية	A of October	ingth of the	- · · · · · · · · · · · · · · · · · · ·			
Introved by (signature)	- 第				- 3	<u> </u>		
Approved by (signature)	T.			G. HIL			ate	
Marketill	ENV	IRONM	ENTAL	_ MANAG	ER	:	07-	11-10
Title (The Title	Öffice							
\mathcal{M}	- 0,55			Approval				
	<u> </u>	A	ction (8	Necess	ur y			
application approval does not warrant or certify that the applicant holds legal or ec	quitable title	to those	rights in	the subject	lease wh	ich would entitle	e the applica	nt to
onduct operations thereon.							- •	
Conditions of approval, if any, are attached.								
itle 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for states any false, fictitious or fraudulent statements or representations as to any m	or any persor	knowing	gly, and v	willfully to m	ake to an	y department o	r agency of th	ne Linited
		its jurisdi	ction.			<u> K</u> E	:UEIV	<u> </u>
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DIV. OF OIL, GAS & MINING

Form 3160-5					*		-			
(September 2001)		U	NITED STATE	ES					FO	RM APPROVED
	DEPA		NT OF THE IN		OR					MB No. 1004-0135
1	BURE	AU OF	LAND MANA	AGEMI	ENT					pires January 31, 2004
										IGNATION AND SERIAL NUMBER:
	SUND	RY NO	TICES AND RE	EPORTS	ON WEL	LS				TU-77855
	Do not use	this forn	n for proposals to	o drill or	to re-enter a	n				ALLOTTEE OR TRIBE NAME:
			se Form 3160-3 (/						o. II INDIAIN, I	LEOTTEE OR TRIBE NAME.
									7. UNIT or CA	AGREEMENT NAME:
	SUBMIT	IN TRI	PLICATE - Of	her ins	tructions o	n reve	rse	side	lo.	elander
1. TYPE OF WELL:					***************************************	, 0 0				E and NUMBER:
OIL	X GA	e	OTHER						l .	
2. NAME OF OPERATOR:	Energy of									Chambers #1-AX
2. NAME OF OPERATOR:	Alker Exp								9. API NUMBE	λ
			Street #2 (P.O.	Pov 9	7)		(1)	25) 925 424 OCC	0	
3a. ADDRESS OF OPERATOR	CITY Ma		•	. DOX 6	,	3b.		85) 835-424 Office		
	SWNE		STATE	01	ZIP ##	PHONE	43.	5.340.0557 Mobil	Wildo	· · · · · · · · · · · · · · · · · · ·
4. LOCATION OF WELL			1582 FEL						11. County or F	•
FOOTAGE AT SURFACE:				_					J Ca	arbon
QTR/QTR, SECTION, TOWNSHI			28-T15S-13E							
		ATE BO	OX (ES) TO INDI	CATE N.	ATURE OF I	NOTICE	, REI	PORT, OR DATA		·
TYPE OF SUBMIS	SSION									
г т		l —	٦	F	7			1	_	7
Notice of Inter	ıt	I	ACIDIZE	<u> </u>	DEEPEN		ļ	PRODUCTION (START/RESUME)	· <u>L</u>	WATER SHUT-OFF
[]		l	ALTER CASING		FRACTURE TREA	r	_	RECLAMATION		Well Integrity
X Subsequent Re	eport		CASING REPAIR		NEW CONSTRUCT	MON		RECOMPLETE	X	OTHER Spudd well
		<u> X</u>	CHANGE PLANS	L	PLUG AND ABANT	DON		Temporarily Abandon		Set New Surface
Final Abandon	ment Notice	L	Convert to Injection		PLUG BACK			WATER DISPOSAL		Casing
13. Describe Proposed of	or Completed Op	eration (cl	learly state all pertiner	nt details in	ncluding estimat	ed starting	date o	f any proposed work and ap	anrovimata dure	ntion thoronf
								true vertical depths of all pe		
								red subsequent reports shall		
								in a new interval, a Form 3		
				only after	all requirements	, including	reclar	nation, have been complete	d, and the opera	itor has
determined that the s	•	•	<i>'</i>							
* Perform	a mechani	ical int	tegrity test							
The casin	ig failed on	the M	IT for the Arco	Cham	hers #1A	(API#	43-	007-30000) causi	na a ria e	kid to this new location
Attached	nlease find	the fo	llowing for the		Chamba	re #1 ^	Y-	001-00033) Causi	ily a ily s	Rid to this new location
			bore (50' Nor					ara)		
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DITE WILL	emam me	Same a	al 2000 FINE a	and Zu	OU FVVL					
14. I herby certify that the foregoi	ing is true and correc	t				ı				RECEIVED
NAME (Printed/Typed)	امصناا		~ //	7						MEOLIVED
Stever	J. Lund		// 			Title		Engineer		FEB 0 8 2010
		7. L								1 25 0 0 2010
SIGNATURE / Sun	////	Ju	ed!			DATE		1/31/2010	,	DIV. OF OIL, GAS & MINING
	/		(TH	IS SPAC	E FOR FED	FRAL O	R ST	ATE OFFICE USE)		NA. OI OILI OILO CIIIITIII
Approved by								<u> </u>		
Conditions of approval, i	f any are attach	ed Anny	oval of this potice do	nee net we	urrant or	T:41-				
certify that the applicant						Title			Date	
which would entitle the a				i uie subje		Office -				
	``					Office				
								d willfully to make to any	department or	agency of the United
State any false, fictitious	or traudulent s	atements	or representations	as to any	matter within it	s jurisdict	ion.			
(Instructions on reverse)								*U.S. GOVERI	NMENT PRINTING	OFFICE 2001-773 001/46035



Federal Lease #: UTU-77855 Arco Chambers #1-AX SWNE, Section 28-Township 15S-Range 13E

Carbon County, Utah

DRILLING PROGNOSIS/Onshore order #1

NOTE: In the process of testing the surface casing on the Arco Chambers #1 for re-entry the casing was noted to be extremely corroded. A mechanical integrity test was conducted by pressuring up on the casing. The directive was to pressure up to 1000 psig and hold for 10 minutes. The surface casing failed at 750 psig and flowed at about 0.5 bbl/minute. The well location will be moved 50 feet north and 4 feet west of its current position. The new drilling prognosis is as follows:

1. ESTIMATED TOPS OF IMPORTANT GEOLOGIC MARKERS

FORMATION	TOP (TVD)	SUB SURFACE
Entrada	2,365'	+ 3,105'
Carmel	2,755'	+ 2,715'
Navajo	3,020'	+ 2,450'
Kayenta	3,325'	+ 2,145'
Wingate	3,386'	+ 2,084'
Chinle	3,718'	+ 1,752'
Shinarump	3,958'	+ 1,512'
Moenkopi	4,014'	+ 1,456'

2. ESTIMATED DEPTHS OF ANTICIPATED WATER, OIL, GAS, OR MINERAL FORMATIONS

<u>FORMATION</u>	<u>TOP</u>	<u>CONTENTS</u>
Moenkopi	4,136'	Oil/Gas/Water (Possible)

- 3. PRESSURE CONTROL EQUIPMENT (Schematic Attached Figure 1)
 - A) Type: 11" x 3,000 psi WP double-gate BOP and 11" x 3,000 psi WP annular BOP with hydraulic closing unit. 9-5/8" x 11" x 3,000 psi WP slip-on welded casing head and 11" x 7-1/16" x 3,000 psi WP tubing head.

Arco Chambers #1-AX Drilling Prognosis Page Two

The blowout preventer will be equipped as follows:

- 1) One set of blind rams.
- 2) One set of pipe rams.
- 3) Drilling spool with two side outlets (choke side: 3" minimum and kill side: 2" minimum).
- 4) Kill line: Two-inch minimum.
- 5) Two kill line valves, one of which will be a check valve (two-inch
- 6) Choke line: Three-inch minimum.
- 7) Two choke line valves: Three-inch minimum.
- 8) One manually operated choke: Three-inch minimum.
- 9) Pressure gauge on choke manifold.
- 10) Upper kelly cock with handle readily available.
- 11) Full opening internal blowout preventer or drill pipe safety valve able to fit all connections.
- 12) Fillup line to be located above uppermost preventer.
- B) Pressure Rating: 3,000 psi.

C) Testing Procedure:

At a minimum, the BOP, choke manifold, and all related equipment will be pressure tested to the approved working pressure of the BOP stack (if isolated from the surface casing by means of a test plug) or to 70% of the internal yield strength of the surface casing (if not isolated from the surface casing by means of a test plug). Pressure will be maintained for a period of at least ten minutes or until requirements of the test are met, whichever is longer.

At a minimum, this pressure test will be performed:

- 1) When the BOP is initially installed.
- 2) Whenever any seal subject to test pressure is broken.
- 3) Following related repairs.
- 4) At thirty-day intervals.

In addition to the above, the pipe rams will be activated daily, and the blind rams will be activated each trip (but not more frequently than once each day). All BOP tests and drills will be recorded in the IADC Driller's Log (tour sheets).

Arco Chambers #1-AX Drilling Prognosis Page Three

D) Choke Manifold Equipment:

All choke lines will be straight lines, unless turns use tee-blocks, or are targeted with running tees. These lines will be anchored to prevent whip and vibration.

E) Accumulator:

The accumulator will have sufficient capacity to close all rams (plus the annular preventer, if applicable) and retain a minimum of 200 psi above the precharge pressure without the use of the closing-unit pumps. The fluid reservoir capacity will be double the accumulator capacity and the fluid level will be maintained at the manufacturer's recommendations. The BOP system will have two independent power sources to close the preventers. Nitrogen bottles (three minimum) will be considered one of these sources and will maintain a charge equal to the manufacturer's specifications.

The accumulator precharge pressure test will be conducted prior to connecting the closing unit to the BOP stack and at least once every six months thereafter. The accumulator pressure will be corrected if the measured precharge pressure is found to be above or below the maximum or minimum limits as specified on *Onshore Oil and Gas Order Number 2*.

F) Miscellaneous Information:

The blowout preventer and related pressure-control equipment will be installed, tested, and maintained in compliance with the specifications in and requirements of *Onshore Oil and Gas Order Number 2*. The choke manifold and BOP extension rods will be located outside the rig substructure. The hydraulic BOP closing unit will be located at least twenty-five feet from the wellhead, but will be readily accessible to the driller. Exact locations and configurations of the hydraulic BOP closing unit will depend upon the particular drilling rig contracted to drill this hole.

ALKER EXPLORATION LLC / ENERGY OF THE ROCKIES LLC Arco Chambers #1-AX Drilling Prognosis Page Four

4. THE PROPOSED CASING AND CEMENTING PROGRAM

A) Casing Program (Surface casing was run when well was originally drilled):

<u>SIZE</u> 9-5/8"	<u>INTERVAL</u> 0' – 600'	<u>LENGTH</u> 600'		<u>CRIPT</u> N-55, S	
7"	0' - 4,323'	4,323'	-	15-55, L 人久	
B) Cementing	g Program:			/-/	l
CASING/HO	· · · · · ·	CEMENT SLURRY	<u>SX</u>	<u>PPG</u>	YIELD
14" Conducto					
9 5/8" – 12 1/4		Class 'G	245	15.8	1.15
CASING/HO	LE SIZE	CEMENT SLURRY	<u>SX</u>	<u>PPG</u>	YIELD
7" – 8 3/4"		Class 'G' + fluid loss additive and retarder as required	400	15.8	1.15

5. MUD PROGRAM:

Well will be drilled with brine water and treated with bactericide. If bentonite mud is used it will be mixed with fresh water prior to adding KCL. If attapulgite is used it will be mixed after the 2% KCL solution is achieved.

INTERVAL	WEIGHT (PPG)	VISCOSITY (SEC)	WL (CCS)
1,295' to 4,323'	8.5-9.5 ppg	30-60 sec	10-20 ccs

Prior to drilling out surface casing, mud-up with low-solids, non-dispersed mud system utilizing gel (10-12 ppb), caustic soda, and PHPA polymer (1/2 to ½ ppb). Treat out cement contamination with soda ash and sodium bicarbonate. Mud weight should be dictated by gas concentration to maintain nearly balanced conditions. Keep trip speeds down to reduce surge-swab pressure. Keep hole full at all times. Monitor pit volume constantly as lost circulation should be expected at all times. Sweep hole as dictated by



Arco Chambers #1-AX Drilling Prognosis Page Five

hole conditions. Keep the drill pipe moving at all times. Monitor the system for the presence of bacteria and treat out accordingly.

5. MUD PROGRAM (Continued):

INTERVAL (CCS)	WEIGHT (PPG)	VISCOSITY (SEC)	<u>PH</u>	WL
KOP to TD (Horizontal leg)	8.5 - 8.6 ppg	36 sec	>10	10 ccs

After exiting 7" casing at 4,323', drill out with 2% KCL, gel, polymer, LSND mud system, adding caustic soda for PH control. Add starch to keep water loss at a minimum, adding LCM as needed with intermittent sweeps. LCM will consist of cedar fibers and mica. In the event cedar fibers and mica are not readily available cotton seed hulls and saw dust will be used. The Moenkopi is not expected to be over pressured, however if conditions require an increase in mud weight, barite will be added to the mud system for well control.

6. EVALUATION PROGRAM:

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Electric Logging:

It is anticipated that a log suite consisting of

(DIL/Sonic/Neutron-Density/GR/Cal)

will be run from TD to bottom of surface casing.

Drillstem Testing:

None anticipated.

Coring:

None anticipated.

Stimulation:

No stimulation has been formulated for this test at this time. The

drill site, as proposed, will be of sufficient size to accommodate all

completion activities.

The proposed Evaluation Program may change at the discretion of the well site geologist, with approval from the Authorized Officer, Vernal Field Office, Bureau of Land Management.

Whether the well is completed as a dry hole or as a producer, *Well Completion and Recompletion Report and Log* Form #3160-4) will be submitted to the Vernal Field Office not later than thirty (30) days after the completion of the well or after completion of operations being performed, in accordance with 43 CFR 3164.

Two (2) copies of all logs, core descriptions, core analyses, well test data, geologic summaries, sample descriptions, and all other surveys or data obtained and compiled

Arco Chambers #1-AX Drilling Prognosis Page Six

during the drilling, workover, and/or completion operations will be filed with Form #3160-4. Samples (cuttings, fluids, and/or gases) will be submitted when requested by the District Manager, of the Vernal Field Office.

7. ABNORMAL CONDITIONS

No abnormal temperatures or pressures are anticipated. A maximum bottomhole pressure gradient of 0.43 psi per ft (8.3 ppg) is expected.

8. ANTICIPATED STARTING DATES AND MISCELLANEOUS



A. Anticipated Starting Dates:

Anticipated Commencement date - January 30, 2010

Drilling Days - Approximately 20 Days
Completion Days - Approximately 20 Days

B. Miscellaneous:

There shall be no deviation from the proposed drilling and/or workover program as approved. Safe drilling and operating practices must be observed.

All wells, whether drilling, producing, suspended or abandoned shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, the lease serial number, the well number and the surveyed description of the well.

Any changes in operation must have prior approval from the Authorized Officer (AO), Vernal Field Office, Bureau of Land Management. Pressure tests are required before drilling out from under all casing strings set and cemented in place. Blowout preventer controls will remain in use until the well is either completed or abandoned. Preventers will be inspected and operated at least daily to insure good mechanical working order, and this inspection will be recorded on the daily drilling report. All BOP tests must be recorded in the daily drilling report.

The spud date will be orally reported to the Vernal Field Office within forty-eight (48) hours after spudding. If spudding occurs on a weekend or holiday, this report will be called in on the next regular workday following spudding of the well.

In accordance with Onshore Oil & Gas Order Number 1, this well will be reported on MMS Form #3160-6, Monthly Report of Operations and Production, starting with the month in which operations commence and continuing each

Arco Chambers #1-AX
Drilling Prognosis
Page Seven

CONFIDENTIAL

month until the well is physically plugged and abandoned. This report will be filed directly with the Royalty Management Program, Minerals Management Service, P. O. Box 17110, Denver, Colorado 80217.

All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL-3A will be reported to the Vernal Field Office. Major events will be reported verbally within twenty-four (24) hours and will be followed with a written report within fifteen (15) days. "Other than Major Events" will be reported in writing within fifteen (15) days. "Minor Events" will be reported on the Monthly Report of Operations and Production (Form #3160-6).

No well abandonment operations will be commenced without the prior approval of the Authorized Officer. In the case of newly-drilled dry holes or failures, and in emergency situations, oral approval will be obtained from the Vernal Field Office Petroleum Engineer. A *Notice of Intention to Abandon* (Form 3160-5) will be filed with the Authorized Officer within fifteen (15) days following the granting of oral approval to plug and abandon.

Upon completion of approved plugging, a regulation marker will be erected in accordance with 43 CFR 3162.6. The following information will be permanently placed on the marker with a plate, cap, or beaded-on with a welding torch: Company Name, Well Name and Number, Location by Quarter/Quarter, Section, Township, Range, and the Federal Lease Number.

A Subsequent Report of Abandonment (Form #3160-5) will be submitted within thirty (30) days following the actual plugging of the well bore. This report will indicate where plugs were placed and the current status of surface restoration operations. If surface restoration has not been completed at that time, a follow-up report on Form #3160-5 will be filed when all surface restoration work has been completed and the location is considered ready for final inspection.

Pursuant to NTL-4A, lessees and operators are authorized to vent/flare gas during initial well evaluation tests, not exceeding a period of thirty (30) days or the production of fifty (50) MMCF of gas, whichever occurs first. An application must be filed with the Authorized Officer, and approval received, for any venting/flaring of gas beyond the initial (30) day or otherwise authorized test period.

Not later than the <u>5th</u> business day after any well begins production on which royalty is due anywhere on a lease site or allocated to a lease site, or resumes production in the case of a well which has been off production for more than ninety (90) days, the operator shall notify the Authorized Officer by letter or

Arco Chambers #1-AX Drilling Prognosis Page Eight

CONFIDENTIAL

"Sundry Notice", of the date on which such production has begun or resumed. The notification shall provide as a minimum, the following informational items:

- a. Operator name, address, and telephone number.
- b. Well name and number.
- c. Well location "1/4, 1/4, Section, Township, Range, P.M."
- d. Date well was placed in a producing status.
- e. The nature of the wells production, i.e.: crude oil casing gas, or natural gas and entrained liquid hydrocarbons.
- f. The OCS, Federal or Indian lease prefix and number on which the well is located. Otherwise, the non-Federal or non-Indian land category, i.e.: state or private.

Within sixty (60) days following construction of a new tank battery, a site facility diagram of the battery showing actual conditions and piping must be submitted to the Authorized Officer. Facility diagrams shall be filed within sixty (60) days after existing facilities are modified. For complete information as to what is required on these diagrams, please refer to 43 CFR 3162.7-4 (d).

Pursuant to Onshore Oil & Gas Order Number 1, lessees and operators have the responsibility to see that their exploration, development, production, and construction operations are conducted in such a manner which conforms with applicable Federal laws and regulations and with State and Local laws and regulations to the extent that such State and local laws are applicable to operations on Federal and Indian lands.

Date:

Prepared by: Steven J. Lund

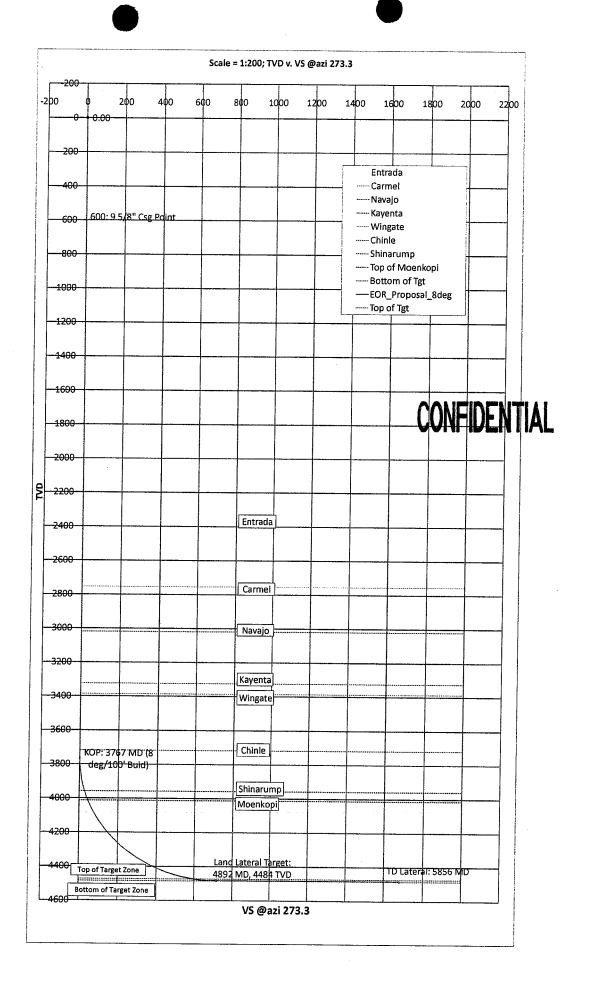
Steven J. Lund

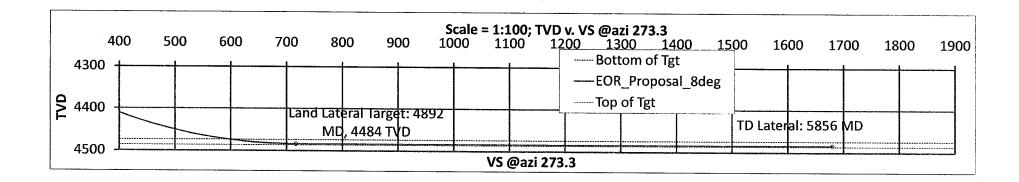
Please direct all correspondence regarding this permit to:

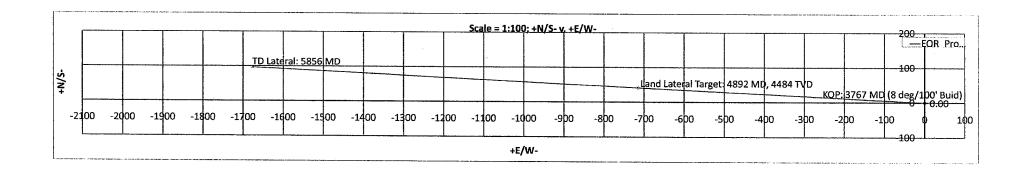
Steven J. Lund 435.340.0557

steve@energyoftherockies.com

	NFORMATION			Well Deta	ils		
JOB NUMBER JOB START DATE			4371460.00 546144.00	Latitude Longitude	39.491508 110.463381	+/- North +/- East	
JOB END DATE COMPANY NAME	Native Navigation	Elevation, ft Vert. Sect, °		TVD Ref	RKR	Slot Name	
OPERATOR	43-007-30099 Energy of the Rockies	Units, ft or m		Proj to Bit		0	45
LOCATION	Arco Chambers #1-AX Carbon County, UT	Current Datum Magnetic Date	IGRF	Map System	NAD 83	315	45
RIG NAME REPRESENTATIVE	Tim McDonald	Field Str, nT Declination, °		-		270	90
MWD COMPANY		Dip Angle, ^o Mag North, ^o				225	Mag North, ° True North, °
COMPANY WEBSITE	Tom Hartley / Kevin Jones www.nativenavigation.com	True North, ° Grid North, °		-		18	Grid North, °
Target Description Land Lateral	Target # Type Target #1 Radius	TVD 4484.00	MD 4892.80	VS 716.20	+N/S- 41,23	+E/W- 715.01	Radius
TD Lateral	Target #2 Radius	4484.00	5856.49	1679.88	96.71	-16677,10	2.00 2.00







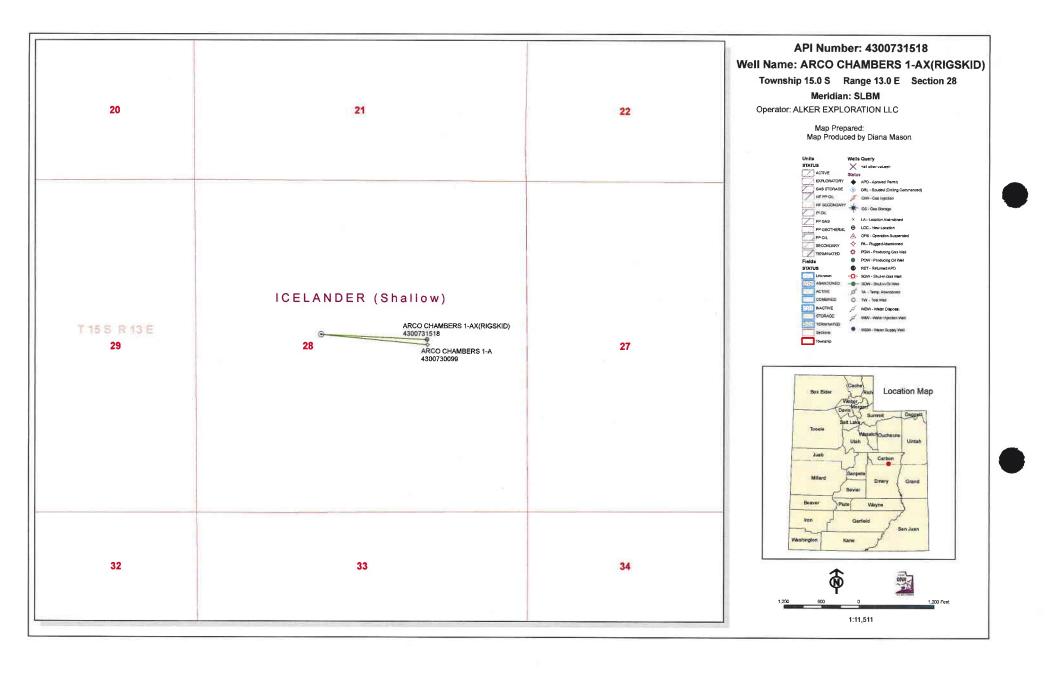
Energy of The Rockies Arco Chamber #1-AX

AICO CI	iainbei i	11-MV									
EOR Pro	posal_8deg MD	CL	.		TVD	V/C	. 1110	THAT	22	14/0	DIO .
0	6,00	0.00	ле. 0.00		0.00	0.00	+N/S-	+E/W-	BR	WR	DLS Comment
1	100.00	100.00	0.00		100.00	0.00	0.00	0.00	0.00	0.00	Surface @ RKB
2	200.00	100.00	0.00		200.00	0.00	0.00 0.00	0.00	0.00	0.00 0.00	0.00
3	300.00	100.00	0.00		300.00	0.00	0.00	0. 00 0.00	0.00 0.00	0.CO 0.CO	0.00
4	400.00	100.00	0.00		400.00	0.00	0.00	0.00	0.00	0.00	0.00
5	500.00	100.00	0.00		500.00	0.00	0.00	0.00	0.00	9.00	0.00 0.00
6	60C.00	100.00	0.00		603.00	0.00	0.00	0.00	0.00	0.00	0.00 9 5/8" Csg Point
7	700.00	100.00	0.00		700.00	0.00	0.00	0.00	0.00	0.00	0.00 s 5/6 Csg Fbiiit
8	800.00	100.00	0.00		800.00	0.00	0.00	0.00	0.00	0.00	0.00
9	900.00	100.00	0.00		900.00	0.00	0.00	0.00	0.00	0.00	0.00
10	1000.00	100.00	0.00		1000.00	0.00	0.00	0.00	0.00	0.00	0.00
11	1100.00	100.00	0.00		1100.00	0.00	0.00	0.00	0.00	0.00	0.00
12	1200,00	100.00	0.00		1200.00	0.00	0.00	0.00	0.00	0.00	0.00
13	1300.00	100.00	0.00	0.00	1300.00	0.00	0.00	0.00	0.00	0.00	0.00
14	1400.00	100.00	0.00	0.00	1400.00	0.00	0.00	0.00	0.00	0.00	0.00
15	1500.00	100.C0	0.00	0.00	1500.00	0.00	0.00	0.00	0.00	0.00	0.00
16	1600.00	100.00	0.00	0.00	1600.00	0.00	0.00	0.00	0.00	0.00	0.00
17	1700.00	100.00	0.00	0.00	1700.00	0.00	0.00	0.00	0.00	0.00	0.00
18	1800.00	100.00	0.00	0.00	1800.00	0.00	0.00	0.00	0.00	0.00	0.00
19	1900.00	100.00	0.00	0.00	1900.00	0.00	0.00	0.00	0.00	0.00	0.00
20	2000.00	100.00	0.00	0.00	2000.00	0.00	0.00	0.00	0.00	0.00	0.00
21	2100.00	100.00	0.00	0.00	2100.00	0.00	0.00	0.00	0.00	0.00	0.00
22	2200.00	100.00	0.00	0.00	2200.00	0.00	0.00	0.00	0.00	0.00	0.00
23	2300.00	100.00	0.00	0.00	2300.00	0.00	0.00	0.00	0.00	0.00	0.00
24	2365.00	65.00	0.00	0.00	2365.00	0.00	0.00	0.00	0.00	0.00	0.00 Entrada
25	2400.00	100.00	0.00	0.00	2400.00	0.00	0.00	0.00	0.00	0.00	0.00
26	2500.00	100.00	0.00	0.00	2500.00	0.00	0.00	0.00	0.00	0.00	0.00
27	2600,00	100.00	0.00	0.00	2600.00	0.00	0.00	0.00	0.00	0.00	0.00
28	2700.00	100.00	0.00	0.00	2700.00	0.00	0.00	0.00	0.00	0.00	0.00
29	2754.99	54.99	0.00	0.00	2754.99	0.00	0.00	0.00	0.00	0.00	0.00 Camel
30	2800.00	100.00	0.00	0.00	2800.00	0.00	0.00	0.00	0.00	0.00	0.00
31	2900.00	100.00	0.00	0.00	2900.00	0.00	0.00	0.00	0.00	0.00	0.00
32	3000.00	100.00	0.00	0.00	3000.00	0.00	0.00	0.00	0.00	0.00	0.00
33	3020.01	20.01	0.00	0.00	3020.01	0.00	0.00	0.00	0.00	0.00	0.00 Navajo
34	3100.00	100.00	0.00	0.00	3100.00	0.00	0.00	0.00	0.00	0.00	0.00
35	3200.00	100.00	0.00	0.00	3200.00	0.00	0.00	0.00	0.00	0.00	0.00
36	3300.00	100.00	0.00	0.00	3300.00	0.00	0.00	0.00	0.00	0.00	0.00
37	3312.50	12.50	0.00	0.00	3312.50	0.00	0.00	0.00	0.00	0.00	0.00 Kayenta
38	3386.00	73.50	0.00	0.00	3386.00	0.00	0.00	0.00	0.00	0.00	0.00 Wingate
39	3400.00	100.00	0.00	0.00	3400.00	0.00	0.00	0.00	0.00	0.00	0.00
40	3500. 0 0	100.00	0.00	0.00	3500.00	0.00	0.00	0.00	0.00	0.00	0.00
41	3600.00	100.CO	0.00	0.00	3600.00	0.00	0.00	0.00	0.00	0.00	0.00
42	3700.00	100,00	0.00	0.00	3700.00	0.00	0.00	0.00	0.00	0.00	0.00
43	3718.00	18.00	0.00	360.00	3718.00	0.00	0.00	0.00	0.00	0.00	0.00 Chinle
44	3767.80	67.80	0.00	273.30	3767.80	0.00	0.00	0.00		-127.87	0.00 KOP (8 deg/100 Buid)
45	3800.00	32.20	2.58	273.30	3799.99	0.72	0.05	-0.72	8.C O	0.00	8.00
46	3900.00	100.00	10.58	273.30	3899.25	12.17	0.70	-12.15	8.00	0.00	8.00
47	3980.31	60.31	15.40	273.30	3958.00	25.72	1.48	-25.67	8.00	0.00	8.00 Shinarump
48	4000.00	100.00	18.58	273.30	3995.95	37.31	2.15	-37.25	8.00	0.00	8.00
49	4019.12	19.12	20.11	273.30	4014.00	43.64	2.52	-43.57	8.00	0.00	8.00 Moenkopi
50	4100.00	100.00	26.58	273.30	4088.22	75.67	4.36	-75.55	8.00	0.00	8.00
51	4154.53	54.53	30.94	273.30	4136.01	101.90	5.87	-101.73	8.00	0.00	8.00 Oil/Gas/Water Possible
52		100.00	34.58	273.30	4174.24	126.50	7.29	-126.29	8:00	0.00	8.00
53	4300.00	100.00	42.58	273.30	4252.36	188.80	10.87	-188.49	8.00	0.00	8.00
54		100.00	50.58	273.30	4321.04	261.37	15.05	-260.94	8.00	0.00	8.00
55		100.00	58.58	273.30	4378.96	342.79	19.74	-342.22	8.00	0.00	8.00
56	4600:00			273.30	4424.98	431.48	24.84	-430.77	8.00	0.00	8.00
57		100.00	74.58	273.30	4458.20	525.71	30.27	-524.84	6.00	0.00	8.00
58		100.00	82.58	273.30	4478.00	623.65	35.90	-622.62	8.00	0.00	8.00
59	4892.80	92.80	90.00	273.30	4484.00	716.20	41.23	-715.01	8.00	0.00	8.00 Land Lateral Target
60	4900.00	7.20	90.00	273.30	4484.00	723.39	41.65	-722.19	0.00	0.00	0.00
61	5000.00	100.00	90.00	273.30	4484.00	823.39	47.40	-822.03	0.00	0.00	0.00
62 63	5085.25	85.25 771.24	90.00 90.00	273.30 273.30	4484.00 4484.00	908.64 1679.88	52.31 96.71	-907.13 -1677.10	0.00 0.00	0.00 0.00	0.00 0.00 TD Lateral

WORKSHEET

APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 02/08/2010	API NO. ASSIGNED: 43-007-31518				
WELL NAME: ARCO CHAMBERS 1-AX(RIGSKID) OPERATOR: ALKER EXPLORATION LLC (N1880 CONTACT: STEVEN LUND	PHONE NUMBER: 435-835-4248				
PROPOSED LOCATION: SWNE 28 150S 130E	INSPECT LOCATN BY: / / Tech Review Initials Date				
SURFACE: 2589 FNL 1582 FEL BOTTOM: 2508 FNL 2030 FWL	Engineering				
COUNTY: CARBON LATITUDE: 39.49166 LONGITUDE: -110.46275	Geology				
UTM SURF EASTINGS: 546199 NORTHINGS: 4371 FIELD NAME: WILDCAT (1					
LEASE TYPE: 1 - Federal LEASE NUMBER: UTU-77855 SURFACE OWNER: 1 - Federal RECEIVED AND/OR REVIEWED:	PROPOSED FORMATION: MNKP COALBED METHANE WELL? NO LOCATION AND SITING:				
Plat Bond: Fed[1] Ind[] Sta[] Fee[] (No. UTB-0000341) Potash (Y/N) Oil Shale 190-5 (B) or 190-3 or 190-13 Water Permit (No. MUNICIPAL) N RDCC Review (Y/N) (Date:) Im Fee Surf Agreement (Y/N) LIM Intent to Commingle (Y/N)	R649-2-3. ★ Horitoolo Unit: ICELANDER (SHALLOW) 6 ✓ R649-3-2. General				
COMMENTS:	·••				
STIPULATIONS: 1- Jeden (Approva STip				





State of Utah **DEPARTMENT OF NATURAL RESOURCES**

MICHAEL R. STYLER Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA Division Director

February 11, 2010

Alker Exploration LLC 97 North Main Street Manti, UT 84642

Subject: Arco Chambers 1-AX Well, Surface Location 2589' FNL, 1582' FEL, SW NE, Sec. 28, T. 15 South, R. 13 East, Bottom Location 2508' FNL, 2030' FWL, SE NW, Sec. 28, T. 15 South, R. 13 East, Carbon County, Utah

Ladies and Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann. § 40-6-1 et seq., Utah Administrative Code R649-3-1 et seq., and the attached Conditions of Approval, approval to drill the referenced well is granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-007-31518.

Sincerely,

Gil Hunt

Associate Director

Stif 76-t

GLH/js **Enclosures**

cc: Carbon County Assessor

Bureau of Land Management, Price Office



Operator:	Alker Ex	xploration LLC		
Well Name & Number	Arco Ch	ambers 1-AX		
API Number:	43-007-3	31518		
Lease:	<u>UTU-77</u>	855		
Surface Location: <u>SW NE</u> Bottom Location: <u>SE NW</u>	Sec. <u>28</u> Sec. <u>28</u>	T. <u>15 South</u> T. <u>15 South</u>	R. <u>13 East</u> R. <u>13 East</u>	

Conditions of Approval

1. General

Compliance with the requirements of Utah Admin. R. 649-1 *et seq.*, the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

2. Notification Requirements

The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

Within 24 hours following the spudding of the well – contact Carol Daniels at 801-538-5284 (please let a voicemail message if not available)
 OR

Submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website at http://oilgas.ogm.utah.gov

Notify the Division prior to commencing operations to plug and abandon the well.

• Contact Dustin Doucet at (801) 538-5281 office (801) 733-0983 after office hours

3. Reporting Requirements

All reports, forms and submittals as required by the Utah Oil and Gas Conservation General Rules will be promptly filed with the Division of Oil, Gas and Mining, including but not limited:

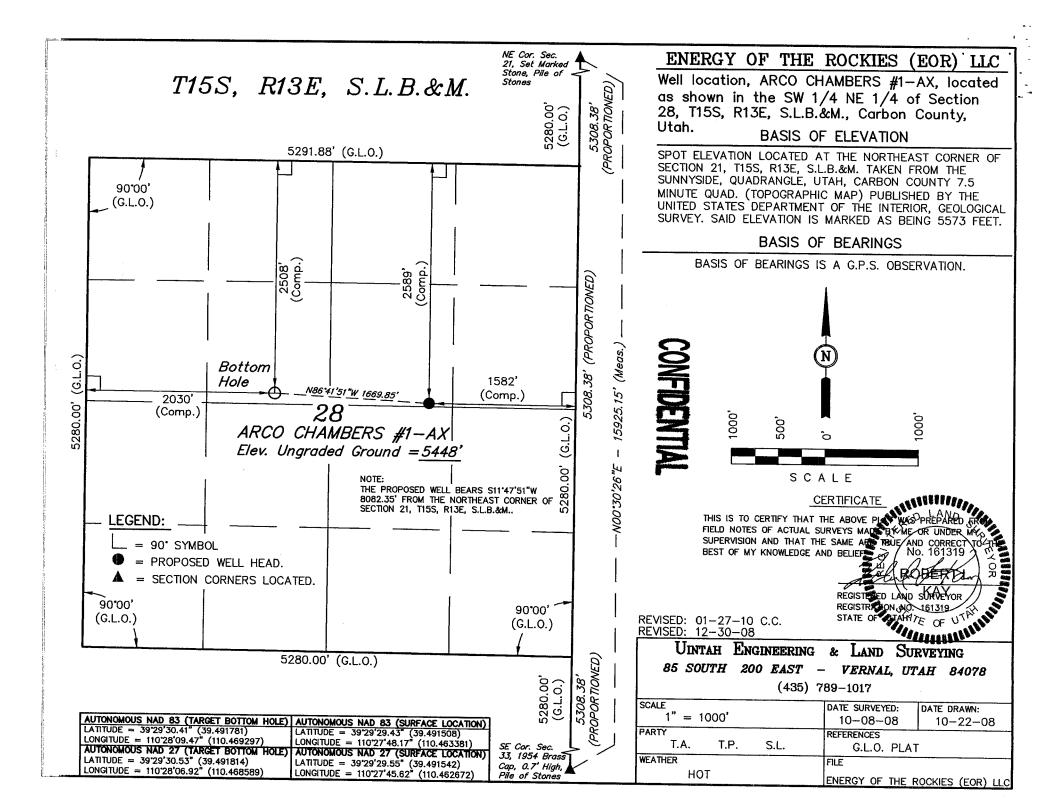
- Entity Action Form (Form 6) due within 5 days of spudding the well
- Monthly Status Report (Form 9) due by 5th day of the following calendar month
- Requests to Change Plans (Form 9) due prior to implementation
- Written Notice of Emergency Changes (Form 9) due within 5 days
- Notice of Operations Suspension or Resumption (Form 9) due prior to implementation
- Report of Water Encountered (Form 7) due within 30 days after completion
- Well Completion Report (Form 8) due within 30 days after completion or plugging
- 4. State approval of this well does not supersede the required federal approval, which must be obtained prior to drilling.

Page 2 43-007-31518 February 11, 2010

- 5. In accordance with Utah Admin. R.649-3-11, Directional Drilling, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.
- 6. This proposed well is located in an area for which drilling units (well spacing patterns) have not been established through an order of the Board of Oil, Gas and Mining (the "Board"). In order to avoid the possibility of waste or injury to correlative rights, the operator is requested, once the well has been drilled, completed, and has produced, to analyze geological and engineering data generated therefrom, as well as any similar data from surrounding areas if available. As soon as is practicable after completion of its analysis, and if the analysis suggests an area larger than the quarter-quarter section upon which the well is located is being drained, the operator is requested to seek an appropriate order.

(September 2001) I INITED STATES	
DEPARTMENT OF THE INTERIOR	FORM APPROVED
BUREAU OF LAND MANAGEMENT	OMB No. 1004-0135
· · ·	Expires January 31, 2004
SUNDRY NOTICES AND REPORTS ON WELLS	5. LEASE DESIGNATION AND SERIAL NUMBER UTU-77855
Do not use this form for proposals to drill or to re-enter an	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
abandoned well. Use Form 3160-3 (APD) for such proposals	
SUBMIT IN TRIPLICATE - Other instructions on reverse side	7. UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL:	Icelander
OIL X GAS OTHER	8. WELL NAME and NUMBER:
2. NAME OF OPERATOR: Energy of the Rockies	Arco Chambers #1-AX Ru
Alker Exploration LLC	9. API NUMBER
GA. ADDRESS OF OPERATOR 97 North Main Street #2 (P.O. Box 87) 3b. (435) 835-424 Office	0 43 007 31518
CITY Manti STATE UT ZIP ## PHONE 435 340 0557 Mahi	e 10. FIELD AND POOL, OR WILDCAT
SWNE	
FOOTAGE AT SURFACE: 2589' FNL & 1582 FEL	11. County or Parish, State Carbon
TRIQTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: 28-T15S-13E	Garboij
2. CHECK APPROPRIATE BOX (ES) TO INDICATE NATURE OF NOTICE, REPORT, OR DATA TYPE OF SUBMISSION	
THE CI CODINISSION	
X Notice of Intent ACIDIZE	
ALTER CASING	WATER SHUT-OFF
Subsequent Report CASING REPAIR RECLAMATION	Well Integrity
X CHANGE PLANS	X OTHER Spudd well
Final Abandonment Notice Convert to Injection PLUG AND ABANDON Temporarily Abandon PLUG AND ABANDON Temporarily Abandon PLUG AND ABANDON WATER DISPOSAL	Set New Surface
Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and a	Casing
Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3 testing has been completed. Final Abandonment Notices shall be filed as least on the completion of the completion of the involved operations.	
determined that the site is ready for final inspection.)	d, and the operate RECEIVED
determined that the site is ready for final inspection.) Perform a mechanical integrity test	fer 1 6 2345
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Perform a mechanical integrity test The casing failed on the MIT for the Arco Chambers #1-A (API# 43-007-30099) causin Attached please find the following for the ARCO Chambers #1-AX: New plat for the new well bore (50' North and 4' West of old well bore) Drilling Prognosis Bond Number is UTB-0000341 BHL will remain the same at 2508' FNL and 2030' FWL Thy certify that the foregoing is true and correct Printed/Typed) Steven J Lund Title Engineer DATE 1/31/2010 This SPACE FOR FEDERAL OR STATE OFFICE USE) The printed that the applicant holds legal or equitable title to those rights in the subject lease would entitle the applicant to conduct operations thereon	FEB 1 1 2010
Derform a mechanical integrity test The casing failed on the MIT for the Arco Chambers #1-A (API# 43-007-30099) causin Attached please find the following for the ARCO Chambers #1-AX: New plat for the new well bore (50' North and 4' West of old well bore) Drilling Prognosis Bond Number is UTB-0000341 BHL will remain the same at 2508' FNL and 2030' FWL Title Engineer Title Engineer Title Engineer The casing failed on the MIT for the Arco Chambers #1-AX (API# 43-007-30099) causin Attached please find the following for the ARCO Chambers #1-AX: New plat for the new well bore (50' North and 4' West of old well bore) Drilling Prognosis BHL will remain the same at 2508' FNL and 2030' FWL Title Engineer Title Engineer The transported of the ARCO Chambers #1-AX (API# 43-007-30099) causin Attached to the ARCO Chambers #1-AX: New plat for the new well bore (50' North and 4' West of old well bore) Title Engineer Title Engineer Title Engineer Title Engineer Title Engineer PRICE F U.S.C. Section 1001 and Title 43 U.S.C. Section 1212 make it a crime for any possession.	FEB 1 1 2010
Perform a mechanical integrity test The casing failed on the MIT for the Arco Chambers #1-A (API# 43-007-30099) causin Attached please find the following for the ARCO Chambers #1-AX: New plat for the new well bore (50' North and 4' West of old well bore) Drilling Prognosis Bond Number is UTB-0000341 BHL will remain the same at 2508' FNL and 2030' FWL Title Engineer DATE 1/31/2010 (THIS SPACE FOR FEDERAL OR STATE OFFICE USE) That the applicant holds legal or equitable title to those rights in the subject lease	FEB 1 1 2010

COPY



Federal Lease #: UTU-77855 Arco Chambers #1-AX SWNE, Section 28-Township 15S-Range 13E

Carbon County, Utah

DRILLING PROGNOSIS/Onshore order #1

NOTE: In the process of testing the surface casing on the Arco Chambers #1 for re-entry the casing was noted to be extremely corroded. A mechanical integrity test was conducted by pressuring up on the casing. The directive was to pressure up to 1000 psig and hold for 10 minutes. The surface casing failed at 750 psig and flowed at about 0.5 bbl/minute. The well location will be moved 50 feet north and 4 feet west of its current position. The new drilling prognosis is as follows:

1. ESTIMATED TOPS OF IMPORTANT GEOLOGIC MARKERS

FORMATION	TOP (TVD)	SUB SURFACE
Entrada	2,365'	+ 3,105'
Carmel	2,755'	+ 2,715'
Navajo	3,020'	+ 2,450'
Kayenta	3,325'	+ 2,145'
Wingate	3,386'	+ 2,084'
Chinle	3,718'	+ 1,752'
Shinarump	3,958'	+ 1,512'
Moenkopi	4,014'	+ 1,456'

2. ESTIMATED DEPTHS OF ANTICIPATED WATER, OIL, GAS, OR MINERAL FORMATIONS

<u>FORMATION</u>	TOP	CONTENTS
Moenkopi	4,136'	Oil/Gas/Water (Possible)

- 3. PRESSURE CONTROL EQUIPMENT (Schematic Attached Figure 1)
 - A) Type: 11" x 3,000 psi WP double-gate BOP and 11" x 3,000 psi WP annular BOP with hydraulic closing unit. 9-5/8" x 11" x 3,000 psi WP slip-on welded casing head and 11" x 7-1/16" x 3,000 psi WP tubing head.

Arco Chambers #1-AX Drilling Prognosis Page Two

The blowout preventer will be equipped as follows:

- 1) One set of blind rams.
- 2) One set of pipe rams.
- 3) Drilling spool with two side outlets (choke side: 3" minimum and kill side: 2" minimum).
- 4) Kill line: Two-inch minimum.
- 5) Two kill line valves, one of which will be a check valve (two-inch
- 6) Choke line: Three-inch minimum.
- 7) Two choke line valves: Three-inch minimum.
- 8) One manually operated choke: Three-inch minimum.
- 9) Pressure gauge on choke manifold.
- 10) Upper kelly cock with handle readily available.
- 11) Full opening internal blowout preventer or drill pipe safety valve able to fit all connections.
- 12) Fillup line to be located above uppermost preventer.
- B) Pressure Rating: 3,000 psi.

C) Testing Procedure:

At a minimum, the BOP, choke manifold, and all related equipment will be pressure tested to the approved working pressure of the BOP stack (if isolated from the surface casing by means of a test plug) or to 70% of the internal yield strength of the surface casing (if not isolated from the surface casing by means of a test plug). Pressure will be maintained for a period of at least ten minutes or until requirements of the test are met, whichever is longer.

At a minimum, this pressure test will be performed:

- 1) When the BOP is initially installed.
- 2) Whenever any seal subject to test pressure is broken.
- 3) Following related repairs.
- 4) At thirty-day intervals.

In addition to the above, the pipe rams will be activated daily, and the blind rams will be activated each trip (but not more frequently than once each day). All BOP tests and drills will be recorded in the IADC Driller's Log (tour sheets).

Arco Chambers #1-AX Drilling Prognosis Page Three

D) Choke Manifold Equipment:

All choke lines will be straight lines, unless turns use tee-blocks, or are targeted with running tees. These lines will be anchored to prevent whip and vibration.

E) Accumulator:

The accumulator will have sufficient capacity to close all rams (plus the annular preventer, if applicable) and retain a minimum of 200 psi above the precharge pressure without the use of the closing-unit pumps. The fluid reservoir capacity will be double the accumulator capacity and the fluid level will be maintained at the manufacturer's recommendations. The BOP system will have two independent power sources to close the preventers. Nitrogen bottles (three minimum) will be considered one of these sources and will maintain a charge equal to the manufacturer's specifications.

The accumulator precharge pressure test will be conducted prior to connecting the closing unit to the BOP stack and at least once every six months thereafter. The accumulator pressure will be corrected if the measured precharge pressure is found to be above or below the maximum or minimum limits as specified on *Onshore Oil and Gas Order Number 2*.

F) Miscellaneous Information:

The blowout preventer and related pressure-control equipment will be installed, tested, and maintained in compliance with the specifications in and requirements of *Onshore Oil and Gas Order Number 2*. The choke manifold and BOP extension rods will be located outside the rig substructure. The hydraulic BOP closing unit will be located at least twenty-five feet from the wellhead, but will be readily accessible to the driller. Exact locations and configurations of the hydraulic BOP closing unit will depend upon the particular drilling rig contracted to drill this hole.

ALKER EXPLORATION LLC / ENERGY OF THE ROCKIES LLC Arco Chambers #1-AX Drilling Prognosis Page Four

4. THE PROPOSED CASING AND CEMENTING PROGRAM

INTEDVAL

A) Casing Program (Surface casing was run when well was originally drilled):

IFNCTH

<u>51ZE</u> 9-5/8"	0' - 600'	600'		N -55, S	
7" B) Cementing	0'-4,323'	4,323'	20#, H -55, LTC		
CASING/HO	LE SIZE	CEMENT SLURRY	<u>SX</u>	<u>PPG</u>	YIELD
14" Conducto	r				
9 5/8" – 12 1/4	4"	Class 'G	245	15.8	1.15
CASING/HO	LE SIZE	CEMENT SLURRY	<u>SX</u>	PPG	YIELD
7" – 8 3/4"		Class 'G' + fluid loss additive and retarder as required	400	15.8	1.15

5. MUD PROGRAM:

CITE

Well will be drilled with brine water and treated with bactericide. If bentonite mud is used it will be mixed with fresh water prior to adding KCL. If attapulgite is used it will be mixed after the 2% KCL solution is achieved.

INTERVAL	WEIGHT (PPG)	VISCOSITY (SEC)	WL (CCS)
1,295' to 4,323'	8.5-9.5 ppg	30-60 sec	10-20 ccs

Prior to drilling out surface casing, mud-up with low-solids, non-dispersed mud system utilizing gel (10-12 ppb), caustic soda, and PHPA polymer (1/2 to ½ ppb). Treat out cement contamination with soda ash and sodium bicarbonate. Mud weight should be dictated by gas concentration to maintain nearly balanced conditions. Keep trip speeds down to reduce surge-swab pressure. Keep hole full at all times. Monitor pit volume constantly as lost circulation should be expected at all times. Sweep hole as dictated by



DESCRIPTION

Arco Chambers #1-AX Drilling Prognosis Page Five

hole conditions. Keep the drill pipe moving at all times. Monitor the system for the presence of bacteria and treat out accordingly.

5. MUD PROGRAM (Continued):

INTERVAL (CCS)	WEIGHT (PPG)	<u>VISCOSITY (SEC)</u>	<u>PH</u>	WL
KOP to TD (Horizontal leg)	8.5 – 8.6 ppg	36 sec	>10	10 ccs

After exiting 7" casing at 4,323', drill out with 2% KCL, gel, polymer, LSND mud system, adding caustic soda for PH control. Add starch to keep water loss at a minimum, adding LCM as needed with intermittent sweeps. LCM will consist of cedar fibers and mica. In the event cedar fibers and mica are not readily available cotton seed hulls and saw dust will be used. The Moenkopi is not expected to be over pressured, however if conditions require an increase in mud weight, barite will be added to the mud system for well control.

6. EVALUATION PROGRAM:

CONFIDENTIAL

Electric Logging:

It is anticipated that a log suite consisting of

(DIL/Sonic/Neutron-Density/GR/Cal)

will be run from TD to bottom of surface casing.

Drillstem Testing:

None anticipated.

Coring:

None anticipated.

Stimulation:

No stimulation has been formulated for this test at this time. The

drill site, as proposed, will be of sufficient size to accommodate all

completion activities.

The proposed Evaluation Program may change at the discretion of the well site geologist, with approval from the Authorized Officer, Vernal Field Office, Bureau of Land Management.

Whether the well is completed as a dry hole or as a producer, Well Completion and Recompletion Report and Log Form #3160-4) will be submitted to the Vernal Field Office not later than thirty (30) days after the completion of the well or after completion of operations being performed, in accordance with 43 CFR 3164.

Two (2) copies of all logs, core descriptions, core analyses, well test data, geologic summaries, sample descriptions, and all other surveys or data obtained and compiled

Arco Chambers #1-AX Drilling Prognosis Page Six

during the drilling, workover, and/or completion operations will be filed with Form #3160-4. Samples (cuttings, fluids, and/or gases) will be submitted when requested by the District Manager, of the Vernal Field Office.

7. ABNORMAL CONDITIONS

No abnormal temperatures or pressures are anticipated. A maximum bottomhole pressure gradient of 0.43 psi per ft (8.3 ppg) is expected.

8. ANTICIPATED STARTING DATES AND MISCELLANEOUS

CONFIDENTIAL

A. Anticipated Starting Dates:

Anticipated Commencement date - January 30, 2010

Drilling Days - Approximately 20 Days Completion Days - Approximately 20 Days

B. Miscellaneous:

There shall be no deviation from the proposed drilling and/or workover program as approved. Safe drilling and operating practices must be observed.

All wells, whether drilling, producing, suspended or abandoned shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, the lease serial number, the well number and the surveyed description of the well.

Any charges in operation must have prior approval from the Authorized Officer (AO), Vernal Field Office, Bureau of Land Management. Pressure tests are required before drilling out from under all casing strings set and cemented in place. Blowout preventer controls will remain in use until the well is either completed or abandoned. Preventers will be inspected and operated at least daily to insure good mechanical working order, and this inspection will be recorded on the daily drilling report. All BOP tests must be recorded in the daily drilling report.

The spud date will be orally reported to the Vernal Field Office within forty-eight (48) hours after spudding. If spudding occurs on a weekend or holiday, this report will be called in on the next regular workday following spudding of the well.

In accordance with Onshore Oil & Gas Order Number 1, this well will be reported on MMS Form #3160-6, Monthly Report of Operations and Production, starting with the month in which operations commence and continuing each

Arco Chambers #1-AX
Drilling Prognosis
Page Seven



month until the well is physically plugged and abandoned. This report will be filed directly with the Royalty Management Program, Minerals Management Service, P. O. Box 17110, Denver, Colorado 80217.

All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL-3A will be reported to the Vernal Field Office. Major events will be reported verbally within twenty-four (24) hours and will be followed with a written report within fifteen (15) days. "Other than Major Events" will be reported in writing within fifteen (15) days. "Minor Events" will be reported on the Monthly Report of Operations and Production (Form #3160-6).

No well abandonment operations will be commenced without the prior approval of the Authorized Officer. In the case of newly-drilled dry holes or failures, and in emergency situations, oral approval will be obtained from the Vernal Field Office Petroleum Engineer. A *Notice of Intention to Abandon* (Form 3160-5) will be filed with the Authorized Officer within fifteen (15) days following the granting of oral approval to plug and abandon.

Upon completion of approved plugging, a regulation marker will be erected in accordance with 43 CFR 3162.6. The following information will be permanently placed on the marker with a plate, cap, or beaded-on with a welding torch: Company Name, Well Name and Number, Location by Quarter/Quarter, Section, Township, Range, and the Federal Lease Number.

A Subsequent Report of Abandonment (Form #3160-5) will be submitted within thirty (30) days following the actual plugging of the well bore. This report will indicate where plugs were placed and the current status of surface restoration operations. If surface restoration has not been completed at that time, a follow-up report on Form #3160-5 will be filed when all surface restoration work has been completed and the location is considered ready for final inspection.

Pursuant to NTL-4A, lessees and operators are authorized to vent/flare gas during initial well evaluation tests, not exceeding a period of thirty (30) days or the production of fifty (50) MMCF of gas, whichever occurs first. An application must be filed with the Authorized Officer, and approval received, for any venting/flaring of gas beyond the initial (30) day or otherwise authorized test period.

Not later than the <u>5th</u> business day after any well begins production on which royalty is due anywhere on a lease site or allocated to a lease site, or resumes production in the case of a well which has been off production for more than ninety (90) days, the operator shall notify the Authorized Officer by letter or

Arco Chambers #1-AX Drilling Prognosis Page Eight



"Sundry Notice", of the date on which such production has begun or resumed. The notification shall provide as a minimum, the following informational items:

- a. Operator name, address, and telephone number.
- b. Well name and number.
- c. Well location "1/4, 1/4, Section, Township, Range, P.M."
- d. Date well was placed in a producing status.
- e. The nature of the wells production, i.e.: crude oil casing gas, or natural gas and entrained liquid hydrocarbons.
- f. The OCS, Federal or Indian lease prefix and number on which the well is located. Otherwise, the non-Federal or non-Indian land category, i.e.: state or private.

Within sixty (60) days following construction of a new tank battery, a site facility diagram of the battery showing actual conditions and piping must be submitted to the Authorized Officer. Facility diagrams shall be filed within sixty (60) days after existing facilities are modified. For complete information as to what is required on these diagrams, please refer to 43 CFR 3162.7-4 (d).

Pursuant to Onshore Oil & Gas Order Number 1, lessees and operators have the responsibility to see that their exploration, development, production, and construction operations are conducted in such a manner which conforms with applicable Federal laws and regulations and with State and Local laws and regulations to the extent that such State and local laws are applicable to operations on Federal and Indian lands.

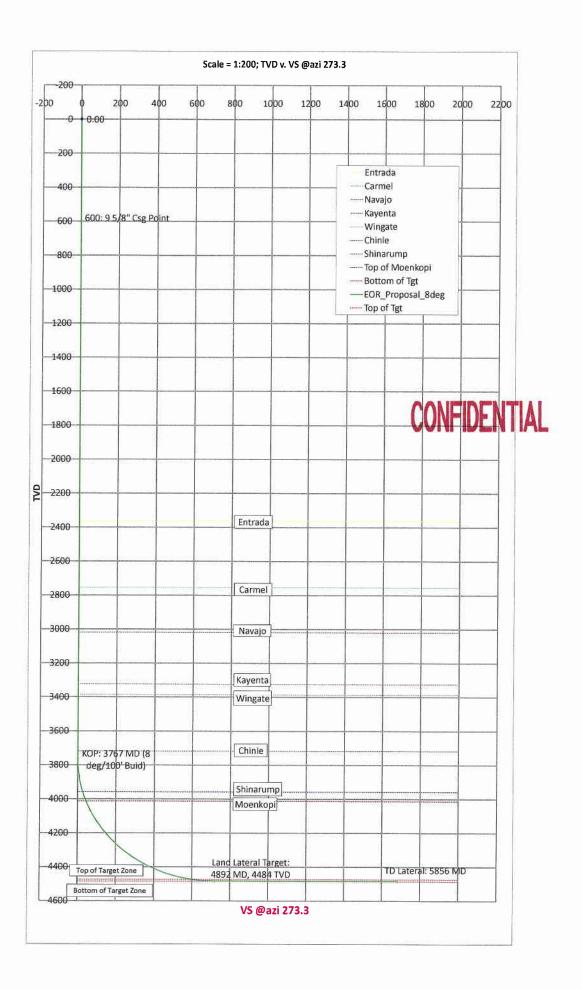
Date:

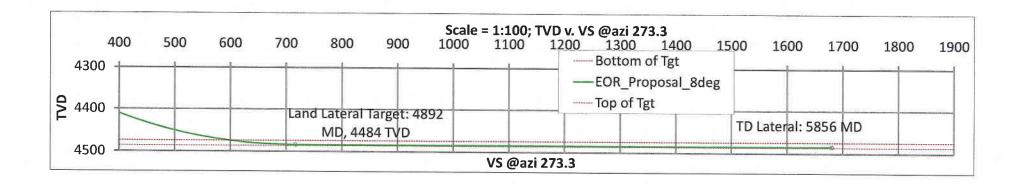
Prepared by: Steven J. Lund

Steven I Lund

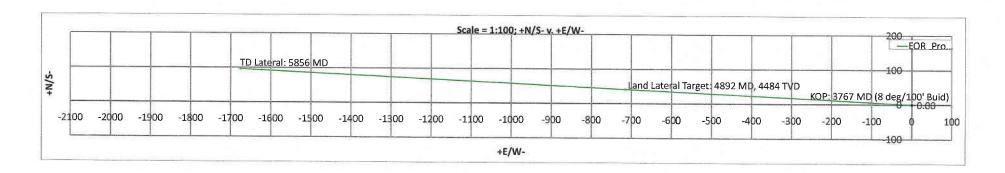
Please direct all correspondence regarding this permit to:

Steven J. Lund 435.340.0557 steve@energyoftherockies.com











Energy of The Rockies Arco Chamber #1-AX

OR_Prop- No.	osal_8deg MD	CL	Inc.	Azi	TVĐ	vs	+N/S-	+E/W-	ВR	WR	DLS Comme
0	0.00	0.00	0.00		0.00	0.00	0.00	0.00	лс	71.50	Surface @ RKB
1	100.00	100.00	0.00		100.00	0.00	0.00	0.00	0.00	0.00	0.00
2	200.00	100.00	0.00		200.00	0.00	0.00	0.00	0.00	0.00	0.00
3	300.00	100.00	0.00		300.00	0.00	0.00	0.00	0.00	0.00	0.00
4	400.00	100.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
5	500.00	100.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
6	600.00	100.00	0.00		600.00	0.00	0.00	0.00	0.00	0.00	0.00 9 5/8" Csg Point
7	700.00	100.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
8	800.00	100.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
9	900.00	100.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
10	1000.00	100.00	0.00	0.00	1000.00	0.00	0.00	0.00	9.00	0.00	0.00
11	1100.00	100.00	0.00	0.00	1100.00	0.00	0.00	0.00	0.00	0.00	0.00
12	1200.00	100.00	0.00	0.00	1200.00	0.00	0.00	0.00	0.00	0.00	0.00
13	1300.00	100.00	0.00	0.00	1300.00	0.00	0.00	0.00	0.00	0.00	0.00
14	1400.00	100.00	0.00	0.00	1400.00	0.00	0.00	0.00	0.00	0.00	0.00
15	1500.00	100.00	0.00	0.00	1500.00	0.00	0.00	0.00	0.00	0.00	0.00
16	1600.00	100.00	0.00	0.00	1600.00	0.00	0.00	0.00	0.00	0.00	0.00
17	1700.00	100.00	0.00	0.00	1700.00	0.00	0.00	0.00	0.00	0.00	0.00
18 19	1800.00	100.00	0.00	0.00	1800,00	0.00	0.00	0.00	0.00	0.00	0.00
20	1900.00	100.00 100.00	0.00	0.00	1900.00	0.00	0.00	0.00	0.00	0.00	0.00
20 21	2000.00 2100.00	100.00	0.00 0.00	0.00 0.00	2000.00 2100.00	0.00 0.00	0.00 0.00	0.00	0.00	0.00	0.00
22	2200.00	100.00	0.00	0.00	2100.00	0.00	0.00	0.00	0.00	0.00	0.00
23	2300.00	100.00	0.00	0.00	2300.00	0.00	0.00	0. 00 0.00	0.0 0 0.00	0.00 0.00	0.00 0.00
24	2365.00	65.00	0.00	0.00	2365.00	0.00	0.00	0.00			
25	2400.00	100.00	0.00	0.00	2400.00	0.00	0.00	0.00	0.00 0.00	0.00 0.00	0.00 Entrada 0.00
26	2500.00	100.00	0.00	0.00	2500.00	0.00	0.00	0.00	0.00	0.00	0.00
27	2600.00	100.00	0.00	0.00	2600.00	0.00	0.00	0.00	0.00	0.00	0.00
28	2700.00	100.00	0.00	0.00	2700.00	0.00	0.00	0.00	0.00	0.00	0.00
29	2754.99	54.99	0.00	0.00	2754.99	0.00	0.00	0.00	0.00	0.00	0.00 Carmel
30	2800.00	100.00	0.00	0.00	2800.00	0.00	0.00	0.00	0.00	0.00	0.00
31	2900.00	100.00	0.00	0.00	2900.00	0.00	0.00	0.00	0.00	0.00	0.00
32	3000.00	100.00	0.00	0.00	3000.00	0.00	0.00	0.00	0.00	0.00	0.00
33	3020.01	20.01	0.00	0.00	3020.01	0.00	0.00	0.00	0.00	0.00	0.00 Navajo
34	3100.00	100.00	0.00	0.00	3100.00	0.00	0.00	0.00	0.00	0.00	0.00
35	3200.00	100.00	0.00	0.00	3200.00	0.00	0.00	0.00	0.00	0.00	0.00
36	3300.00	100.00	0.00	0.00	3309.00	0.00	0.00	0.00	0.00	0.00	0.00
37	3312.50	12.50	0.00	0.00	3312.50	0.00	0.00	0.00	0.00	0.00	0.00 Kayenta
38	3386.00	73.50	0.00	0.00	3386.00	0.00	0.00	0.00	0.00	0.00	0.00 Wingate
39	3400.00	100.00	0.00	0.00	3400.00	0.00	0.00	0.00	0.00	0.00	0.00
40	3500. 0 0	100.00	0.00	0.00	3500.00	0.00	0.00	0.00	9.00	0.00	0.00
11	3600,00	100.00	0.00	0.00	3600.00	0.00	0.00	0.00	0.00	0.00	0.00
12	3700.00	100.00	0.00	0.00	3700.00	0.00	0.00	0.00	D.CO	0.00	0.00
3	3718.00	18.00	0.00	360.00	3718.00	0.00	0.00	0.00	0.00	0.00	0.00 Chinle
4	3767.80	67.80	0.00	273.30	3767.80	0.00	0.00	0.00		-127.87	0.00 KOP (8 deg/100' Bui
5	3800.00	32.20	2.58	273.30	3799.99	0.72	0.05	-0.72	8.00	0.00	8.00
6	3900.00	100.00	10.58	273.30	3899.25	12.17	0.70	-12.15	8.00	0.00	8.00
7	3960.31	60.31	15.40	273.30	3958.00	25.72	1.48	-25.67	8.00	0.00	8.00 Shinarump
8	4000.00	100.00	18.58	273.30	3995.95	37.31	2.15	-37.25	8.00	0.00	8.00
9	4019.12	19.12	20.11	273.30	4014.00	43.64	2.52	-43.57	8.00	0.00	8.00 Moenkopi
i0 :1	4100.00	100.00	26.58	273.30	4088.22	75.67	4.36	-75.55 404.70	8.00	0.00	8.00
1	4154.53 4200.00	54.53	30.94	273.30	4136.01	101.90	5.87	-101.73	8.00	0.00	8.00 Oil/Gas/Water Possi
2 3	4300.00	100.00 100.00	34.58 42.58	273.30	4174.24	126.50	7.29	-126.29	8.00	0:00	8.00
4	4300.00 4400.00	100.00	42.58 50.58	273.30 273.30	4252.36 4321.04	188.80	10.87	-188.49	8.00	0.00	8.00
5	4500.00					261.37	15.05	-260.94	8.00	0.00	8.00
	4600.00	100.00	58.58 66.59	273.30	4378.96	342.79	19.74	-342.22 430.77	8.00	0.00	8.00
i6 i7		100.00	66.58 74.58	273.30	4424.98	431.48	24.84	-430.77 -534.94	8.00	0.00	8.00
	4700.00	100.00 100.00	74.58	273.30	4458.20	525.71	30.27	-524.84	8.00	0.00	8.00
8 ·	4800.00 4892.80	92.80	82.58 90.00	273.30 273.30	4478.00	623.65	35.90	-622.62	8.00	0.00	8.00 and Laborat Tarret
9 n					4484.00	716.20	41.23	-715.01	8.00	0.00	8.00 Land Lateral Target
i0 :1	4900.00 5000.00	7.20	90.00	273.30	4484.00	723.39	41.65 47.40	-722.19	0.00	00.0	0.00
i1	5000.00 5085.25	100.00 85.25	90.00 90.00	273.30 273.30	4484.00 4484.00	823.39 908.64	47.40 52.31	-822.03 -907.13	0.00 0.00	0.00 0.00	0.00
2											

Form 3160-5					^							
(September 2001)		UN!	TED STATE	ES						FOF	M APPROVED	
		RTMEN	T OF THE IN	NTERIC						OM	B No. 1004-0135	
	BUREA	AU OF I	LAND MANA	AGEMI	ENT					Expi	res January 31, 2004	
									5. LEASI		INATION AND SERIAL	NUMBER:
			CES AND RE						ļ	UT	`U-77855	
			or proposals to Form 3160-3 (a						6. IF IND	IAN, Al	LLOTTEE OR TRIBE N	AME:
:	abandoneu v	veii. Use	roiiii 3 100-3 (i	APD) 101	such propos	ais			7. UNIT	or CA A	GREEMENT NAME:	
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1. TYPE OF WELL:	- OODIMI I		L, O, (, L , O,	.,,0,,,,,0				3,40	8. WELL		and NUMBER:	
OIL	X GAS	Г	OTHER						l A	rco (Chambers #1-	AX Ruskin
2. NAME OF OPERATOR:	Energy of	<u> </u>							9. API N			
	Alker Expl								(0 4	13 007 31	518.
3a. ADDRESS OF OPERATOR	97 North N	√lain Str	eet #2 (P.O	. Box 8	57)	3b.	(43	(5) 835-424 Office	e 10. FIELD	AND PO	OL, OR WILDCAT	
	сту Мал	nti	STATE	UT	zip ##	PHONE	435	5.340.0557 Mob	il V	/ildca	at	
4. LOCATION OF WELL	SWNE								11. Cour	-	arish, State	
FOOTAGE AT SURFACE:	2589' F		582 FEL	_						Са	rbon	
QTR/QTR, SECTION, TOWNSHI			28-T15S-13									·
	""	ATE BOX	(ES) TO INDI	CATE N	ATURE OF I	NOTICE	, REI	PORT, OR DATA				
TYPE OF SUBMIS	SSION											
Notice of Inter	nt	ГП,	CIDIZE	Γ	DEEPEN			PRODUCTION (START/RESU	ME		WATER SHUT-OFF	
Notice of lines.	"	-	LTER CASING	<u> </u>	FRACTURE TREA	T		RECLAMATION	WIE)		Well Integrity	
X Subsequent Re	eport	-	ASING REPAIR		NEW CONSTRUC			RECOMPLETE		x	OTHER	
Subsequent 10	oport		HANGE PLANS		PLUG AND ABAN			Temporarily Abandon		<u> </u>	OTILLA	
Final Abandon	ment Notice		onvert to Injection		PLUG BACK		X	WATER DISPOSAL				
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13. Describe Proposed of		•	•		•	_						
1 1	•	•	•	•				true vertical depths of al	-			
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		-	•				-	nation, have been compl				
determined that the				d only and	an requirement	s, moraani	, rootar	nation, have been comp		opora	tor nas	
	=	_	orting produ	uced w	ater from	Grass	v Tr	raile	Lital	p D:	by the	÷ -
Accept ii	ability for t	anspe	nting prout	uccu vi	ator mom	Orass	y	ulio	Oil. G	1 D)	ed by the vision of and Mining	
									, C.,	20 d	ma Mining	
Energy of	the Rockie	s and A	Alker Explora	ation w	ill use prod	duced \	vate	r to drill this w	UH RI	EC(DRD ONIV	,
The prod	uced water	will con	ne from the	Grassy	r I rails oil i	field op	erat	ed by Genesis	Petrole	ım U	S, - OITE	
								or transporting the				
rom Gras	ssy Trails to) the An	co Chamber	rs #1-A		-1VF	\mathbf{D}^{w}	ill store the pro	aucea w	ater/	in a lined	
reserve p	it to suppor	t an urn	ling operatio	MS.								
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14. I herby certify that the forego	oing is true and correct			DI	V. OF OIL, C	ias & N	HHH	G				
NAME (Printed/Typed)	mig to true und contoct]						
	n J. Lund			,		Title		Engineer				
	1/_		2//									
SIGNATURE	Thene)//	Lun			DATE		2/4/2010				
		/	ι									
		•	(1)	HIS SPAC	CE FOR FEL	DERAL (OR S	TATE OFFICE USE	:)			
Approved by												
Conditions of approval,	-					Title			Date			
certify that the applicant		•	-	in the subj	ject lease	000		PRICE	FIF	n	FFICE	
which would entitle the				- 14 = ·		Office	-l. ·					
Title 18 U.S.C. Section State any false, fictitious								u williully to make to a	iiy depaπn	ient of	agency or the Unite	,u
(Instructions on reverse			Topicocitations	5 45 (O GII)	, maker withill	juriouit		*10.00	VEDNIMENT	DINTING	OFFICE	2001-773 001/46035
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Laws 11511								
	UNITED STATES PARTMENT OF THE INTER REAU OF LAND MANAGEI			FORM APPROVED FORM APPROVED	14			
OT III	5. LEASE DESIGNATION AND SERI	AL NUMBER:						
	NDRY NOTICES AND REPOR			UTU-77855				
abandor	se this form for proposals to drill ned well. Use Form 3160-3 (APD)	or to re-enter an for such proposals		6. IF INDIAN, ALLOTTEE OR TRIBE	NAME:			
				7. UNIT or CA AGREEMENT NAME:				
SUBM	IT IN TRIPLICATE - Other i	nstructions on reve	se side	Icelander				
I. TYPE OF WELL:				8. WELL NAME and NUMBER:				
OIL X	GAS OTHER			Arco Chambers #1	I-AX			
2. NAME OF OPERATOR:	Evaluation I.I.C			9. API NUMBER				
	Exploration LLC 60 Vine Hill Road	I	(425) 925 424 06500	43-007-31518				
1	Sebastopol STATE CA	2IP 95472 PHONE	(435) 835-424 Office 435.340.0557 Mobil	10, FIELD AND POOL, OR WILDCAT WILDCAT				
4. LOCATION OF WELL. SW		Dis Do Tras priorito	133.3 10.0337 1110011	11. County or Parish, State				
FOOTAGE AT SURFACE: 258	89' FNL & 1582 FEL			Carbon				
QTR/QTR, SECTION, TOWNSHIP, RANGE, MER								
	PRIATE BOX (ES) TO INDICATE	NATURE OF NOTICE	REPORT, OR DATA					
TYPE OF SUBMISSION								
Notice of Intent X Subsequent Report	ACIDIZE ALTER CASING CASING REPAIR	DEEPEN FRACTURE TREAT NEW CONSTRUCTION	PRODUCTION (START/RESUME) RECLAMATION RECOMPLETE	Well Integrity	d well			
	X CHANGE PLANS	PLUG AND ABANDON	Temporarily Abandon	Set New				
Final Abandonment Notice	Convert to Injection	PLUG BACK	WATER DISPOSAL	Casing				
Attach the Bond under which the following completion of the involvesting has been completed. Final determined that the site is ready? * Perform a mech The Arco Chamb This well was spunced by the set 8' on 14" conditions on 12 Cement with 310 Drill Rat hole and Rig down Ross D Waiting on Gunnian Bond Number is	anical integrity test ers #1-A failed an MIT. The id at 11:00 am, January 30, ductor e 1/4" hole, set 600' of 9 5/8' sacks of Premium Cement, mouse hole for Gunnision i rilling, re-grade and level loses is UTB-0000341	d No. on file with BLM/BIA. multiple completion or recomplete all requirements, including a rig was skid and the 2010 J-55 Casing Good returns to sure. Rig 101	Required subsequent reports shall bletion in a new interval, a Form 3 reclamation, have been complete the Arco Chambers #1 or a complete for	be filed within 30 days 3160-4 shall be filed once d, and the operator has	ingly:			
 I herby certify that the foregoing is true and a NAME (Printed/Typed) 	correct	1						
Steven J. Lun	d /	Title	Engineer					
SIGNATURE SELECT JATE 2/25/2010								
	/ (THIS SF	ACE FOR FEDERAL C	R STATE OFFICE USE)					
Approved by				·				
	ttached. Approval of this notice does no			Date				
	or equitable title to those rights in the s	ubject lease						
which would entitle the applicant to		Office						
	itle 43 U.S.C. Section 1212, make it a c			department or agency of the Uni	ted			
	ent statements or representations as to	any matter within its jurisdic	ion.					
(Instructions on reverse)			*U.S. GOVER	RNMENT PRINTING OFFICE	2001-773 001/48035			

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(September 2001) UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT	FORM ATPROVED OMB No. 1004-0135 Expires January 31, 2004
SUNDRY NOTICES AND REPORTS ON W	5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-77855
Do not use this form for proposals to drill or to re-ent abandoned well. Use Form 3160-3 (APD) for such pro	ler an 6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Oposals
SUBMIT IN TRIPLICATE - Other instruction	
I. TYPE OF WELL: OIL X GAS OTHER	8. WELL NAME and NUMBER: Arco Chambers #1-AX
2. NAME OF OPERATOR: Alker Exploration LLC	9. API NUMBER 4300731518
	2 3b. (435) 835-424 Office 10. FIELD AND POOL, OR WILDCAT 5472 PHONE 435.340.0557 Mobil Wildcat
4. LOCATION OF WELL SWNE FOOTAGE AT SURFACE: 2589' FNL & 1582 FEL OTRIQTE, SECTION, TOWNSHIP, RANGE, MERIDIAN: 28-T15S-R13E	11. County or Parish, State Carbon
12 CHECK APPROPRIATE BOX (ES) TO INDICATE NATURE (OF NOTICE, REPORT, OR DATA
TYPE OF SUBMISSION	
	ASTRUCTION RECOMPLETE OTHER D ABANDON Temporarily Abandon
 13. Describe Proposed or Completed Operation (clearly state all pertinent details, including end of the proposal is to deepen directionally or recomplete horizontally, give subsurface location Attach the Bond under which the work will be perfonned or provide the Bond No. on file of following completion of the involved operations. If the operation results in a multiple completed has been completed. Final Abandonment Notices shall be filed only after all require determined that the site is ready for final inspection.) * Monthly Drilling Reports for February, March and See Attached 	ions and measured and true vertical depths of all pertinent markers and zones. with BLM/BIA. Required subsequent reports shall be filed within 30 days upletion or recompletion in a new interval, a Form 3160-4 shall be filed once ements, including reclamation, have been completed, and the operator has
14.1 herby certify that the foregoing is true and correct NAME (Printed/Typed)	1
Steven J. Lund	Title Engineer
SIGNATURE Secret Final	DATE 9/29/10
(THIS SPACE FOR	FEDERAL OR STATE OFFICE USE)
Approved by Conditions of approval, if any are attached. Approval of this notice does not warrant or	Trile Dato
certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon	
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any	Office Derson knowingly and willfully to make to any department or agency of the Linited
State any false, fictitious or fraudulent statements or representations as to any matter w	
(Instructions on reverse)	*U.S. GOVERNMENT PRINTING OFFICE 2001-773 001/46035

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SEP 2 9 2010

A mechanical integrity test was done on the existing Aroo Chambers at well bore. The MIT failed requiring a new well bore to the direct Dress to now you grow the old was bore to 10. Benetics well once well not when the same of the old surveys and will use them as a possible guide where this well bore goes. We do have some of the old surveys and will use them as a possible guide in re-drilling the hole and steering away from it. Therefore it has been decided that we will steer this well from the beginning which will increase cost and time. This will increase the cost of the well. Feb-10 (Move and of fload rig hau in road base level location for rig up finish setting and rigging up housing Worked deglite hours 9700 - 1730 Worked deglite hours 9700 - 1730 Worked deglite hours 9700 - 1730 Move in and rig up Gunnison rig 101 Set mething boards. Set subase, Set draworks on floor, Feb-10 (Rig up Dr. 7) pips will go with Bourland and Leveletch Move in and rig up Gunnison rig 101 Set mething boards. Set subase, Set draworks on floor, Feb-10 (Rig up Dr. 7) pips up floor put kelly and spinner I has talken Gunnison 5 sight rig up. That is too long. Gunnison's 80P will roll if the well head flange. This is why we invited Jive Savage to come out and look Gunnison's 80P will roll if the well head flange. This is why we invited Jive Savage to come out and look Gunnison's 80P will roll if the well head flange. This is why we invited Jive Savage to come out and look Gunnison's 80P will roll if the well head flange. This is why we invited Jive Savage to come out and look Gunnison's 80P will roll if the well head flange. This is why we invited Jive Savage to come out and look Gunnison's 80P will roll if the well head flange. This is sub-yive invited Jive Savage to come out and look Gunnison's 80P will roll if the well head flange on the savage savage savage and savage savage savage and savage	ATE	ARCO CHAMBERS #1-AX FEBRUARY 2010 DRILLING COMMENTS FOR GUNNISON RIG 101 SUMMARY
a new well bore to be drilled. There is no way to grot the old swell bore to TD, therefore we do not know where this well bore goes. We do have some of the old surveys and will use them as a possible guide Dut we must avoid a collision with the 5 1/2" stub that is about 2811. A collision with the stub will result in re-drilling the hole and sterring rewy from 1. Therefore it has been decided that we will seer this well from the beginning which will increase cost and time. This will increase the cost of the well. Freb-10 [Mower and of read rip bau in road bease level doesnot not rig up theirs setting and rigging up housing Worked daylite hours 0700 - 1730 Freb-10 [Conting To Tippe will go with Bourland and Leveritch Move in and rig up Gunnison rig 101 Set matting boards, Set subsets, Set draworks on floor, Freb-10 [Riq up. Worked two crews 12 hrs 0700 - 0700 Nippie up B.D. P. rig up floor pix kelly and spinner This taken Gunnison 5 days to rig up. That is too long. Gunnison's BOP will not the well head flange. This is why we invited Joe Savage to come out and look The very large before we went installed it to make a up their BOP would fit it. Gunnison not has to ren't a BOP at their appoince. We are barrip for a complete rig. The shale shakers are old and could fail. We can't find the finar acreers for them Ordered S75 of 7 pp B9 405,950. From Bourland & Leveritch Gunnison is still rigging up, day 6. The mud enjoyee's is not largey about the shaker screens. The mesh size is too large, smaller mesh size Locercia are not make for these od shakers. Freb-10 [Not are all rigging up, day 6. The mud enjoyee's is not largey about the shaker screens. The mesh size is too large, smaller mesh size Locercia are not make for these od shakers. Freb-10 [Not are right and the search of the shaker screens. The mesh size is too large, smaller mesh size Freb-10 [Not are right and the search of the shaker screens. The mesh size is too large, smaller mesh size Freb-10 [Not are right and the search of the shaker scr	71 L	
Affect 10 but we must avoid a collision with the 51'22' abut that is about 21's A. Collision with this study will result in re-drilling the hole and steering away from it. Therefore it has been decided that we will steer this well from the beginning which will increase bot and time. This will consease the cost of the well. 3-Feb-10 blows and off Ead fig haul in road beas level location for gir gu finish setting and rigging up housing Worked degline house 07'00'-1730' 4-Feb-10 Blows and off Ead fig haul in road beas level location for gir gu finish setting and rigging up housing Worked degline house 07'00'-1730' 4-Feb-10 Rig up Ead of gir guest in the state of the state of the well. 5-Feb-10 Rig up the state of gir guest in the state		A mechanical integrity test was done on the existing Arco Chambers #1 well bore. The MIT failed requiring
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## Feb-10 Control for 7° pipe will go Gunnison ing 101 Set matting boards, Set subsee, Set draworks on floor, 5-Feb-10 Rig up. Worked two crews 12 hrs 0700 - 0700 ## Feb-10 Rig up. Worked two crews 12 hrs 0700 - 0700 ## Rigure 18 Control Rig up. Worked two crews 12 hrs 0700 - 0700 ## Rigure 18 Control Rigure 19 Control Rigure 19 R	3-Feb-10	Move and off load rig haul in road base level location for rig up finish setting and rigging up housing
S-Feb-10 (Rig up, Worked two crews 12 his 0709 - 0700 Nopel pu B.O. Pf. day 10 foot put kelly and spinner It has taken Gurnison 5 days to rig up. That is too long. Gurnison's BOP will not fit the well head flange. This is why we invited Job Savage to come out and look T-Feb-10 at the wellhead flange bodie we even installed it to make sure their BOP would fill. Gurnison now has to rent a BOP at their expense. We are paying for a complete rig. The shale shakers are defailed and could fail. We can't fill off their exceens for them Ordered 5376 of 7" pipe \$40,980 of from Bourland & Leventich Gunnison is still rigging up, day 9 The mud engineer is not happy about the shaker screens. The mesh size is too large, smaller mesh size screens are not made for these old shakers. Reserved new AP# 45-07-31518 Nipple up choke Flare lines and hyd choke Pressure lest B.O.P Rig up, fineth nipple up B.O.P and lines Pressure lest B.O.P Rig up, fineth nipple up, fineth shaker screens, Set pipe racks load and strap BHA, Prime pumps, clear floor to pick up BHA FIRSHED RIGGINIS UP AND STARTED DRILLING Decause of the uncertainty of hitting the others well bore stub at 2811" we are drilling directional FROM 725" TO TD Rig up, survey machine Pick up BHA Work on air lines Pressure greated and shade 560 - 630 Drilling 330 - 725" Trip out pick up monet change and yest swivel packing. TRIP #3: 5.8 HOURS AND STILL TRIPPING Press 10 Drilling is slow but we are setting the well up to be in good shape for the kick off of the lateral. Li-Feb-10 Bit selection seems to be a problems. TRIP #3: 5.8 HOURS AND STILL TRIPPING Press 10 Drilling is going well but slow the crew seems to be unsurer TRIP #2: 9.8 HOURS TO TRIP 1341 FEET Drilling is going well but slow the crew seems to be unsurer of TRIPBSLEVES, THEY ARE RE-LEARNING THIS RIG ON OUR TIME FRESH-10 Drilling is going well but slow the crew seems to be unsurer of TRIPBSLEVES, THEY ARE RE-LEARNING THIS PROFINE Presh-10 Bit selection seems to be the biggest proble		Worked daylite hours 0700 - 1730
Move in and rig up Gunnison rig 101 Set metting boards, Set subase, Set draworks on floor,	4-Feb-10	Looking for 7" pipe will go with Bourland and Leveritch
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Tripping out, due to a failure in the mud motor. This is more than likely a result of the screens on the shakers having to large a mesh size. This is the smallest mesh size for these shakers.		Stand Garden Group speries to be light and slow drawing. The are still Slow
shale shakers having to large a mesh size. This is the smallest mesh size for these shakers.		
shale shakers having to large a mesh size. This is the smallest mesh size for these shakers.	6-Feb-10	TRIP #7: 8.5 HOURS TO TRIP 3049'
7 - 1 - 10 -	6-Feb-10	TRIP #7: 8.5 HOURS TO TRIP 3049'
7-Feb-10 One round trip as taken almost 12 hours. This is unacceptable.	6-Feb-10	TRIP #7: 8.5 HOURS TO TRIP 3049' Cripping out, due to a failure in the mud motor. This is more than likely a result of the screens on the

	TRIP #8: 8.5 HOURS TO TRIP 3185'
	10 DAYS to get to this point This is really unacceptable performance. The factors that contribute to the slow
28-Feb-10	drilling is the fact that we are steering away from the others well bore and bit performance has not been as
	good as it should have been and trip time is too slow. We have had
	FINAL COMMENTS FOR FEBRUARY WORK
	The biggest problem in February activity is the slow rig up times and trip times. The crews seem
	unsure of what to do. They appear to be unfamiliar with the rig. Gunnsion assured us that these hands
	were experienced and new this rig well. Trip times of 8.5 hours to trip 3185' are unacceptable. I ought to
	take an 2 minutes per stand to pull this pipe. Even at 5 min. per stand is should take 4 hours

	ARCO CHAMBERS #1-AX
DATE	MARCH 2010 DRILLING COMMENTS FOR GUNNISON RIG 101 SUMMARY
1-Mar-10	Drilling and preparing to kick off. KOP looks to be at 3750' Mark Koury will be geosteering the well.
	Prep for KOP re-assembling the drill string for kick off.
	TRIP #9: 19.5 HOURS TO RE-ASSEMBLE DRILL STRING AND TRIP from 3200'
3-Mar-10	Slide drilling to kick off. KOP is at 3750'
	Pumps ability to achieve the rates of 400 - 600 gpm are in question
4-Mar-10	Bit selection still a problem, lost mud motor
	TRIP #10: 8 HOURS TO TRIP FROM 3754
5-Mar-10	Pumps becoming a real problem not able to achieve the expected rates.
o-iviai- iu	TRIP #11: 10 HOURS TO TRIP 2963'. DIRECTIONAL DRILLERS SPECIFICALLY TOLD NOT TO PUT ON STABLIZER
	TRIP # 12: 9 HOURS TO TRIP FROM 3860' TO REMOVE STABLIZER. This one is on Native Nav.
	Drilling looks good, slow but direction and control are good. We are developing some extra angle just in case on an
	emergency
	Bit TRIP #13: Trip to change bit finding the right bit is going against all normal conventions for this lithology
	Trip for 9.5 hours to 3750' CHANGE OUT BIT TO HUGHES Q-506 FX
ĺ	HUGHES BIT DRILLING GREAT
	Pumps are failing. Drilling Super was told to find alternative pumps in case of failure.
	TRIP #14: Short trip due to pump fialure.
	Per Neil Allen Pumps were recently gone through and totally rebuilt.
	Liners in pumps washing out and failing. This is causing poor performance on footage. As soon as we set 7" casing
	pumps will be replaces
	TRIP #15: DUE TO PUMP FAILURE.
	Hughes 506 bit drilling great, strongly recommend for next hole. Pumps failing and belts not proper for pumps
,	TRIP #16: Short trip to casing shoe due to pump failure.
	TRIP #17: Trip from casing shoe to surface to change motor and batteries.
40.4440	New belts were in Casper, why Gunnison doesn't have them on the rig is a serious question. I was told they had 2 of
12-Mar-10	
13 Mar 10	Joe Savage looking for replacement pumps. He is not looking very hard.
13-War-10	22 HOURS WAITING ON BELTS THIS IS ALL ON GUNNISON, ALL EXPENSES FOR THE CAMP FOR THE DAY.
}	RAN 122 JOINTS 7 INCH J-55 20# CASING TOTAL LENGTH 4930.94
	SHOE SET@ 4925.94 FLOAT SET@ 4883.33 MARKER JOINT 20.60 SET @ 2973
ł	Shut down Gunnison to get rig pumps repaired. Joe was to get replacemnent pumps but didn't find an acceptable pump
	All moving for pump repair on Gunnison
	RIG REPAIR MUD PUMPS
	RIG REPAIR MUD PUMPS
31-Mar-10	RIG REPAIR MUD PUMPS

	ARCO CHAMBERS #1-AX
ATE	
4/1/2010	RIG REPAIR MUD PUMPS
4/2/2010	RIG REPAIR MUD PUMPS
4/3/2010	RIG REPAIR MUD PUMPS
	Pumps repaired. Per Ed Mckelevy the pump had not been gone through for a long time. The pumps had been running
	backwards and were in poor condition.
	Drilling going well. Per Henry Alker, Ed Gray and Steve Lund it is agreed tha we will drop down and look at the bottom
	of the B Zone and then move back up if the bottom does not look good.
	Geo steering looking good. We are on target.
	Drilling going well. Per Henry Alker, Ed Gray and Steve Lund it is agreed tha we will drop down and look at the bottom
	of the B Zone and then move back up if the bottom does not look good.
	Geo steering looking good. We are on target.
	Drilling going well stop at 6308. Saw an increase in P-rate at last 100 feet
	Prep to run image log. Brought Fuel
	Prep to run 4.5" casing. Due to low expectation of water production slotted liner will be run from 7" shoe to end of lateral
	Casing hanger would not fit in head. Re-worked liner hanger and ran 2582' of 4.5" casing (65 jts.)
4/15/2010	Waiting on image log analysis before running tubing and pump, TOH set RBP

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING

			ENTITY ACTION	FORM		1		
Operator:	Alker E	Exploration		Ope	erator Ac	count Nu	ımber: 1	N 1880
Address:	5360 V	/ine Hill Road		- •			_	
	city Se	bastopol		-				
	state C	A	zip 95472	<u></u>	Р	hone Nu	ımber:	(435) 340-0557
Well 1 4	3001	31518		SWAL				
API Nu	ımber	Well	Name	QQ	Sec	Twp	Rng	County
-4 3007	30099 -	Arco Chambers 1-A)	(1	28	15S	13E	Carbon
Action	Code	Current Entity Number	S	pud Da	te		tity Assignment Effective Date	
A 99999 17823 2/1/2010 10/28/10								
Commen	ts: Plea	se assign a new Entity	Number:			ΛΛΙ	FINE	AITIAI
mI	UKP	,	BHL= SEN	IW			P	NIIAL

API Number	Well I	Name	QQ	Sec	Twp	Rng	County
Action Code	Current Entity Number	New Entity Number	s	pud Da	te		y Assignment fective Date
omments:			1	······································			·

API Number Well Name QQ Twp Sec Rng County **Action Code Current Entity New Entity Spud Date Entity Assignment** Number Number **Effective Date** Comments:

ACTION CODES:

- A Establish new entity for new well (single well only)
- B Add new well to existing entity (group or unit well)
- C Re-assign well from one existing entity to another existing entity
- D Re-assign well from one existing entity to a new entity
- E Other (Explain in 'comments' section)

Steven J. Lune

Name (Please Prin

Consultant

10/28/2010

Title

Date

(5/2000)

RECEIVED OCT 2 8 2010

DIV. OF OIL, GAS & MINING

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

	MENDED REPOR highlightichanges)		FORM
	LEASE DESIGNATION	AND SERIAL N	UMBER:

FORM 8

					.,						NO NOTE	25 (2		≱TU ♥	7855	CP	
WELI	L CON	IPLE	TION	OR F	RECO	MPL	ETIC	N RI	EPOF	RT ANI	LOG		6. IF	INDIAN,	ALLOTTEE	OR TRIB	E NAME
1a. TYPE OF WELL:		V	VELL Z] {	SAS C]	DRY		ОТН	ER			1		AGREEME nder Ui		<u> </u>
b. TYPE OF WORK NEW WELL	C: HORIZ. 🗹 LATS.		DEEP-] [RE- ENTRY]	DIFF. RESVR.		ОТН	IER			1		E and NUN		<
2. NAME OF OPERA Alker Explo		LLC		_						-	<u></u>		9. A	PI NUMBI 43-007	ER: 7-315/	8	
3. ADDRESS OF OF 5360 Vine H		i	CITY Sel	bastop	ol	STATE	CA	zip 95 4	72		NUMBER: 5) 340-0)557	_		POOL, OF		Т
4. LOCATION OF W AT SURFACE:				4.E.O.O.L.			. 4						11.	QTR/QTR MERIDIAI	, SECTION	, TOWNS	HIP, RANGE,
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ATTOP PRODUC	CING INTER	RVAL REPO	RTED BEI	LOW: 2:	543 FN	VL & 1	1480 F	WL									
AT TOTAL DEPT			158%	FEL			BH	Lb	4 HS	SM				county Carbon		13	. STATE UTAI
1/30/2010	D:	15. DATE 4/15/2		HED:	16. DATE 4/10	COMPL /2011	ETED:		ABANDON		READY TO	PRODUC	E 🔲		VATIONS (RT, GL):
18. TOTAL DEPTH:		268 45 2 50		19. PLUG	BACK T.D		2,775 2,77 5			MULTIPLE C	OMPLETIONS	S, HOW N	IANY?*		TH BRIDGI .UG SET:	E MD	
22. TYPE ELECTRIC				GS RUN (Submit cop			<u> </u>		23.							
Dual Induction	on, Gua	rd Log	, Gamr	na Log	,Com	oensa	ted De	ensity,			L CORED?		NO	<u> </u>	YES 🔲	(Subm	it analysis)
CBL, Image	Log									WAS DST	RUN? NAL SURVE	vrs	NO NO	NO YES (Submit report)			
24. CASING AND LI	NER RECO	RD (Repor	t all string:	s set in w	ell)				,	DIRECTIO	NAL SURVE	T :	NO	<u> </u>	YES 🖊	(Subm	it copy)
HOLE SIZE	SIZE/GF	- 1	WEIGHT	—т	TOP (I	MD)	вотто	M (MD)	(MD) STAGE CEMEN		CEMENT T		SLURRY VOLUME (BBL)		CEMENT	TOP **	AMOUNT PULL
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8 3/4"	7"	J-55	20#		0			925	3,	172	G	410			`		
														-			
25. TUBING RECOR																	
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26. PRODUCING IN	TERVALS									27 BEREO	RATION REC						
FORMATION		TOF	P (MD)	вотто	M (MD)	TOP	(TVD)	вотто	M (TVD)		L (Top/Bot - I		SIZE	NO. HO	ES	PERFOR	ATION STATUS
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В)		1													Oper	· 🗖	Squeezed
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(D)															Oper	· 🔲	Squeezed
28. ACID, FRACTU	RE, TREATN	MENT, CEM	IENT SQUI	EEZE, ETC).						-	-		R	ECF	:///-	
DEPTH I	INTERVAL				-				AM	OUNT AND T	TYPE OF MAT	TERIAL				IVE	D -
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								_						· · · · · · ·	UIL, GA	S & MI	VING
29. ENCLOSED AT	TACHMENT	S:														30. WELL	VING status:
	RICAL/MECI			CEMENT	VERIFICA	TION		GEOLOGI CORE AN	IC REPOR		DST REPOR	T 🗹	7	TIONAL S			P&A

	PRODUCTION

INTERVAL A (As shown in item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL – BBL:	GAS - MCF:	WATER BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL BBL:	GAS MCF:	WATER - BBL:	INTERVAL STATUS:
				INT	ERVAL B (As sho	wn in item #26)	 	1		<u> </u>
DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL – BBL:	GAS - MCF:	WATER - BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY			24 HR PRODUCTION RATES: →	OIL — BBL:	GAS MCF:	WATER - BBL:	INTERVAL STATUS:
				INT	ERVAL C (As sho	wn in item #26)	•			
DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL - BBL:	GAS - MCF:	WATER - BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	Oil BBL:	GAS - MCF:	WATER - BBL:	INTERVAL STATUS:
				INT	ERVAL D (As sho	wn in Item #26)		.1		<u> </u>
DATE FIRST PRODUCED:		TEST DATE:	HOURS TESTED:):	TEST PRODUCTION RATES: →	OIL — BBL:	GAS - MCF:	WATER - BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU - GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS - MCF:	WATER - BBL:	INTERVAL STATUS:
32. DISPOSITIO	ON OF GAS (Sold,	, Used for Fuel, V	ented, Etc.)				L	I		

33.	SUMMARY	OF	PURUUS	ZUNES	(Include /	Aquiters):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

			1	
Top (MD)	Bottom (MD)	Descriptions, Contents, etc.	Name	Top (Measured Depth)
4,014	4,588	Sulfur odor in Brine water		
			,	

34. FORMATION (Log) MARKERS:

35. ADDITIONAL REMARKS (Include plugging procedure)

Slotted Liner was run in the lateral and then retrieved before P&A, Cement was pumped through the complete lateral

oo. Thereby certify that the foregoni	g anu auacheu miormauon	12 COIII	inplete and correct as determined from all available records.
		A .	/

Formation

Moenkopi

SIGNATURE

This report must be submitted within 30 days of

- · completing or plugging a new well
- drilling horizontal laterals from an existing well bore
- recompleting to a different producing formation
- reentering a previously plugged and abandoned well
- significantly deepening an existing well bore below the previous bottom-hole depth
- drilling hydrocarbon exploratory holes, such as core samples and stratigraphic tests

** ITEM 24: Cement Top - Show how reported top(s) of cement were determined (circulated (CIR), calculated (CAL), cement bond log (CBL), temperature survey (TS)).

Send to:

Utah Division of Oil, Gas and Mining 1594 West North Temple, Suite 1210

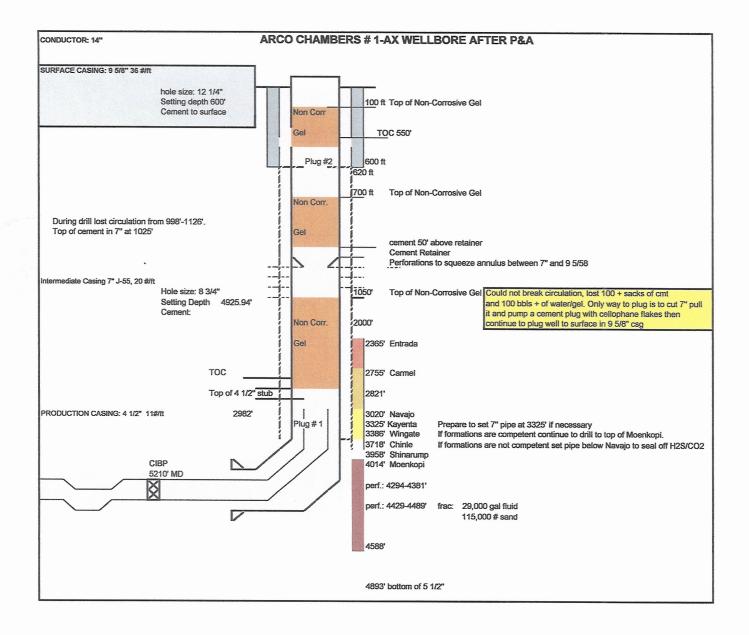
Box 145801

Salt Lake City, Utah 84114-5801

Phone: 801-538-5340

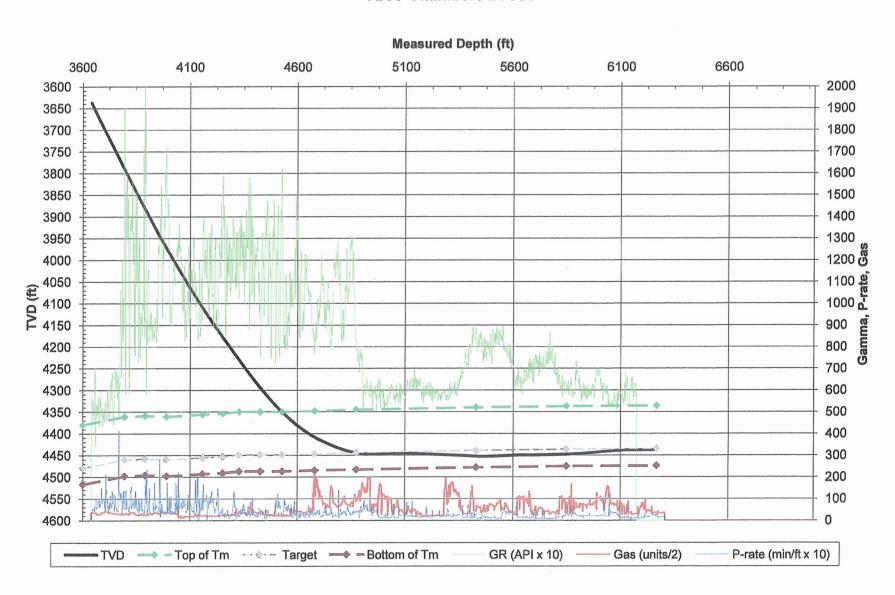
Fax: 801-359-3940

^{*} ITEM 20: Show the number of completions if production is measured separately from two or more formations.



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Arco Chambers #1-AX





Arco Chamber #1-AX Surveys Energy of the Rockies Gunnison Rig #101

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Minimum Curvature Calculation Method

2.11 Native Navigation EM-MWD

4.18 Native Navigation EM-MWD

2.22 Native Navigation EM-MWD

0.21 Native Navigation EM-MWD

0.99 Native Navigation EM-MWD

0.88 Native Navigation EM-MWD

0.32 Native Navigation EM-MWD

1.06 Native Navigation EM-MWD

0.12 Native Navigation EM-MWD

0.59 Native Navigation EM-MWD

1.49 Native Navigation EM-MWD

0.01 Native Navigation EM-MWD

0.65 Native Navigation FM-MWD

0.37 Native Navigation EM-MWD

0.94 Native Navigation EM-MWD

0.67 Native Navigation EM-MWD

0.16 Native Navigation EM-MWD

0.30 Native Navigation EM-MWD

1.29 Native Navigation EM-MWD

0.46 Native Navigation EM-MWD

0.24 Native Navigation EM-MWD

0.73 Native Navigation EM-MWD

0.97 Native Navigation EM-MWD

0.74 Native Navigation EM-MWD

1.55 Native Navigation EM-MWD

6.46 Native Navigation EM-MWD

9.27 Native Navigation EM-MWD

8.90 Native Navigation EM-MWD

10.02 Native Navigation EM-MWD

8.90 Native Navigation EM-MWD

6.87 Native Navigation EM-MWD

8.13 Native Navigation EM-MWD

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9.02 Native Navigation EM-MWD

6.30 Native Navigation EM-MWD

3.32 Native Navigation EM-MWD

1.37 Native Navigation EM-MWD

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7.20 Native Navigation EM-MWD

12.55 Native Navigation EM-MWD

9.41 Native Navigation EM-MWD

10.04 Native Navigation EM-MWD

8.39 Native Navigation EM-MWD

6.73 Native Navigation EM-MWD

Surveys corrected and measured from True North Magnetic declination used: 11.55° Directional Surveys Supplied by Native Navigation from Surface (RKB) to 6205' (71' from TD) Date of Final Survey: 4/12/20120 Survey Report Date: 5/1/2010 Definitive Survey Report No. MD CL VS +N/S +E/W Azi BF WR DLS 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 Surface Reference @ RKB 748.00 748 00 2 2.20 257.00 747.82 13.78 -3.23 13.99 0.29 34.36 0.29 Electronic Single Shot 3 1005.00 257.00 4.80 218.00 1004.35 24.64 -12.81 -25.42 -15.18 1.01 1.32 Electronic Single Shot 4 1261.00 256.00 6.20 211.00 1259.16 37.17 -33.11 -39.14 0.55 -2.73 0.61 Electronic Single Shot 5 1279.00 18.00 6.50 203.30 1277.05 37.97 -34.87 -40.04 1.67 -42.785.01 Native Navigation EM-MWD

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-47.78

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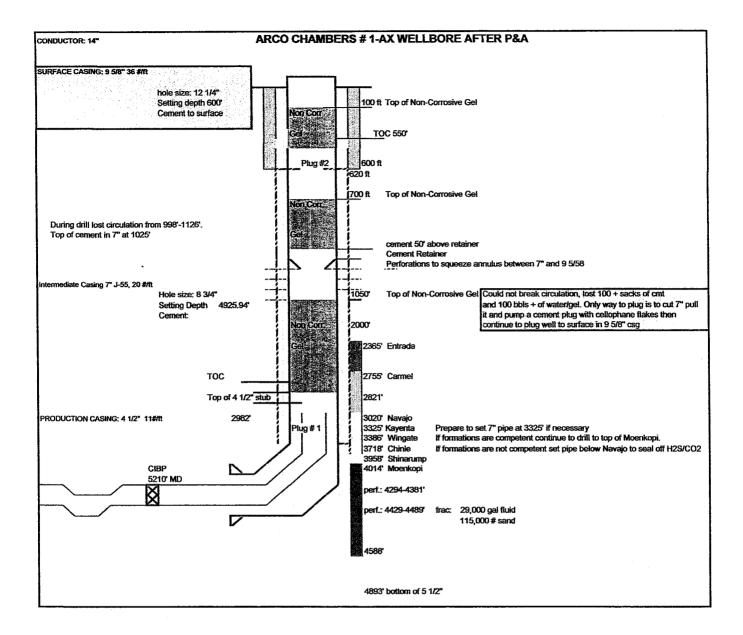
64	4691.00	32.00	74.90	274.80	4411.04	611.88	37.34	-610.74	9.37	0.31	9.38 Native Navigation EM-MWD
65	4723.00	32.00	77.20	274.80	4418.75	642.92	39,94	-641.68	7.19	0.00	7.19 Native Navigation EM-MWD
66	4754.00	31.00	77.80	275.30	4425.46	673.17	42.61	-671.83	1.94	1.61	2.49 Native Navigation EM-MWD
67	4786.00	32.00	78.60	275.20	4432.01	704.48	45.47	-703.02	2.50	-0.31	2.52 Native Navigation EM-MWD
68	4817.00	31.00	81.40	275.20	4437.39	734.98	48.24	-733.42	9.03	0.00	9.03 Native Navigation EM-MWD
69	4849.00	32.00	83.90	275.10	4441.48	766.70	51.09	-765.03	7.81	-0.31	7.82 Native Navigation EM-MWD
70	4880.00	31.00	84.70	275.10	4444.56	797.53	53.83	-795.76	2.58	0.00	2.58 Native Navigation EM-MWD
71	4895.00	15.00	85.80	274.50	4445.80	812.48	55.08	-810.65	7.33	-4.00	8.35 Native Navigation EM-MWD
72	4910.00	15.00	86.90	271.60	4446.76	827.44	55.88	-825.60	7.33	-19.33	20.64 Native Navigation EM-MWD
73	4940.00	30.00	89.80	271.60	4447.62	857.42	56.71	-855.57	9.67	0.00	9.67 Native Navigation EM-MWD
74	4970.00	30.00	91.00	271.60	4447.41	887.40	57.55	-885.56	4.00	0.00	4.00 Native Navigation EM-MWD
75	5001.00	31.00	91.10	271.60	4446.84	918.38	58.42	-916.54	0.32	0.00	0.32 Native Navigation EM-MWD
76	5032.00	31.00	91.30	270.90	4446.19	949.36	59.09	-947.53	0.64	-2.26	2.35 Native Navigation EM-MWD
77	5064.00	32.00	90.40	270.10	4445.72	981.31	59.37	-979.52	-2.81	-2.50	3.76 Native Navigation EM-MWD
78	5096.00	32.00	90.30	269.50	4445.52	1013.25	59.26	-1011.52	-0.31	-1.88	1.90 Native Navigation EM-MWD
79	5128.00	32.00	89.00	269.30	4445.72	1045.18	58.93	-1043.52	-4.06	-0.63	4.11 Native Navigation EM-MWD
80	5160.00	32.00	88.80	269.10	4446.33	1077.09	58.48	-1075.51	-0.63	-0.63	0.88 Native Navigation EM-MWD
81	5191.00	31.00	88.60	269.00	4447.04	1108.00	57.97	-1106.49	-0.65	-0.32	0.72 Native Navigation EM-MWD
82	5223.00	32.00	89.00	269.00	4447.71	1139.90	57.41	-1138.48	1.25	0.00	1.25 Native Navigation EM-MWD
83	5255.00	32.00	88.90	269.00	4448.29	1171.80	56.85	-1170.47	-0.31	0.00	0.31 Native Navigation EM-MWD
84	5287.00	32.00	88.70	268.50	4448.96	1203.70	56.15	-1202.46	-0.63	-1.56	1.68 Native Navigation EM-MWD
85	5319.00	32.00	89.10	268.80	4449.58	1235.58	55.40	-1234.44	1.25	0.94	1.56 Native Navigation EM-MWD
86	5351.00	32.00	88.80	268.40	4450.16	1267.47	54.62	-1266.43	-0.94	-1.25	1.56 Native Navigation EM-MWD
87	5382.00	31.00	88.00	270.20	4451.03	1298.38	54.24	-1297.41	-2.58	5.81	6.35 Native Navigation EM-MWD
88	5414.00	32.00	88.50	271.20	4452.01	1330.33	54.63	-1329.39	1.56	3.12	3.49 Native Navigation EM-MWD
89	5445.00	31.00	89.20	272.30	4452.63	1361.32	55.57	-1360.37	2.26	3.55	4.20 Native Navigation EM-MWD
90	5477.00	32.00	90.30	273.80	4452.77	1393.31	57.28	-1392.33	3.44	4.69	5.81 Native Navigation EM-MWD
91	5509.00	32.00	91.00	274.00	4452.41	1425.31	59.45	-1424.25	2.19	0.62	2.27 Native Navigation EM-MWD
92	5541.00	32.00	91.30	273.80	4451.76	1457.30	61.63	-1456.17	0.94	-0.63	1.13 Native Navigation EM-MWD
93	5572.00	31.00	91.50	273.10	4451.01	1488.29	63.49	-1487.10	0.64	-2.26	2.35 Native Navigation EM-MWD
94	5604.00	32.00	91.70	273.00	4450.11	1520.28	65.20	-1519.05	0.62	-0.31	0.70 Native Navigation EM-MWD
95	5636.00	32.00	90.10	273.30	4449.61	1552.27	66.95	-1550.99	-5.00	0.94	5.09 Native Navigation EM-MWD
96	5667.00	31.00	89.90	272.60	4449.61	1583.27	68.55	-1581.95	-0.65	-2.26	2.35 Native Navigation EM-MWD
97	5699.00	32.00	90.20	273.40	4449.58	1615.27	70.23	-1613.91	0.94	2.50	2.67 Native Navigation EM-MWD
98	5731.00	32.00	90.20	274.00	4449.47	1647.27	72.29	-1645.84	0.00	1.87	1.87 Native Navigation EM-MWD
99	5763.00	32.00	90.80	273.80	4449.19	1679.27	a secretary series in an experience	-1677.76	1.87	-0.63	1.98 Native Navigation EM-MWD
100	5794.00	31.00	90.70	273.60	4448.79	1710.26	76.47	-1708.70	-0.32	-0.65	0.72 Native Navigation EM-MWD
101	5825.00	31.00	90.70	273.10	4448.41	1741.26	78.28	-1739.64	0.00	-1.61	1.61 Native Navigation EM-MWD
102	5857.00	32.00	91.10	273.40	4447.90	1773.26	80.09	-1771.59	1.25	0.94	1.56 Native Navigation EM-MWD
103	5889.00	32.00	92.00	273.70	4447.04	1805.25	82.07	-1803.51	2.81	0.94	2.96 Native Navigation EM-MWD
104	5921.00	32.00	92.10	273.40	4445.89	1837.23	84.05	-1835.43	0.31	-0.94	0.99 Native Navigation EM-MWD
105	5952.00	31.00	92.20	273.30	4444.73	1868.20	85.86	-1866.36	0.32	-0.32	0.46 Native Navigation EM-MWD
106	5984.00	32.00	92.40	273.30	4443.45	1900.18	87.70	-1898.28	0.62	0.00	0.62 Native Navigation EM-MWD
107	6016.00	32.00	92.60	272.50	4442.05	1932.15	89.32	-1930.20	0.62	-2.50	2.57 Native Navigation EM-MWD
108	6047.00	31.00	92.10	272.80	4440.78	1963.12	90.75	-1961.15	-1.61	0.97	1.88 Native Navigation EM-MWD
109	6079.00	32.00	92.30	272.20	4439.55	1995.09	92.15	-1993.09	0.62	-1.88	1.98 Native Navigation EM-MWD
110	6111.00	32.00	91.10	272.00	4438.60	2027.07	93.32	-2025.06	-3.75	-0.63	3.80 Native Navigation EM-MWD
111	6142.00	31.00	90.30	271.40	4438.22	2058.05	94.24	-2056.04	-2.58	-1.94	3.23 Native Navigation EM-MWD
112	6173.00	31.00	90.20	270.80	4438.09	2089.03	94.84	-2087.03	-0.32	-1.94	1.96 Native Navigation EM-MWD
113	6205.00	32.00	90.10	270.70	4438.00	2121.00	95.25	-2119.03	-0.31	-0.31	0.44 Native Navigation EM-MWD
					^					J.34	COLL MACHINE HIGH BORDIN CINI MINAD

N/S E/W

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1000.2 (04-5	THE RESIDENCE OF THE PROPERTY
(September 2001) UNITED STATES	FORM APPROVED
DEPARTMENT OF THE INTERIOR	OMB No. 1004-0135
BUREAU OF LAND MANAGEMENT	Expires January 31, 2004
	5. LEASE DESIGNATION AND SERIAL NUMBER:
SUNDRY NOTICES AND REPORTS ON WELLS	UTU-77855
Do not use this form for proposals to drill or to re-enter an	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
abandoned well. Use Form 3160-3 (APD) for such proposals	
PRODUCTION AND A CONTRACT CONT	7. UNIT or CA AGREEMENT NAME:
SUBMIT IN TRIPLICATE - Other instructions on reverse side	lcelander
1. TYPE OF WELL:	8. WELL NAME and NUMBER:
OIL X GAS OTHER	Arco Chambers #1-AX
2. NAME OF OPERATOR:	9. API NUMBER
Alker Exploration LLC	43-007-31518
3a. ADDRESS OF OPERATOR 97 North Main Street #2 (P.O. Box 87) 3b. (435) 835-424 Office	
CITY Manti STATE UT ZIP 84642 PHONE 435.340.0557 Mobil	1
	Wildcat
4. LOCATION OF WELL SWNE	11. County or Parish, State
FOOTAGE AT SURFACE: 2589' FNL & 1582 FEL	Carbon
OTRIOTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: 28-T15S-13E	
12. CHECK APPROPRIATE BOX (ES) TO INDICATE NATURE OF NOTICE, REPORT, OR DATA	
TYPE OF SUBMISSION	
TITE OF SUBMISSION	
	<u></u>
Notice of Intent ACIDIZE DEEPEN PRODUCTION (STARTARESUME	WATER SHUT-OFF
ALTER CASING FRACTURE TREAT RECLAMATION	
X Subanana Paras	Well Integrity
	OTHER
CHANGE PLANS X PLUG AND ABANDON Temporarity Abendon	
Final Abandonment Notice Convert to Injection PLUG BACK WATER DISPOSAL	
13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and a	
If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all p	ertinent markers and zones.
Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall	
following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form	
testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been complete	ed, and the operator has
determined that the site is ready for final inspection.)	
*	
The well will be Division to the state of th	
The well will be Plugged and Abandoned	
See Attached Scope of Work	
oce Attached Scope of Work	Dr
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	LIVED
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	· LB 6 2012
	RECEIVED FEB 1 6 2012
	DIV. OF OIL, GAS & MINING
	A MINING
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14. I herby certify that the foregoing is true and correct	
NAME (Printed/Typed)	
NAME (Printed/Typed)	
NAME (Printed/Typed) Steven d. Jaind Title Engineer	
NAME (Printed/Typed)	
NAME (Printed/Typed) Steven d. Jand Title Engineer DATE 4/10/2011	
Steven d. Leand Title Engineer SIGNATURE DATE 4/10/2011 (THIS SPACE FOR FEDERAL OR STATE OFFICE USE)	
Steven d. Leand Title Engineer SIGNATURE DATE 4/10/2011 (THIS SPACE FOR FEDERAL OR STATE OFFICE USE) Approved by	
Steven d. Leand Title Engineer SIGNATURE DATE 4/10/2011 (THIS SPACE FOR FEDERAL OR STATE OFFICE USE) Approved by	
Steven J. Land Steven J. Land Title Engineer DATE 4/10/2011 (THIS SPACE FOR FEDERAL OR STATE OFFICE USE) Approved by Conditions of approval, if any are attached. Approval of this notice does not warrant or	Date
Steven J. Jand Title Engineer DATE 4/10/2011 (THIS SPACE FOR FEDERAL OR STATE OFFICE USE) Approved by Conditions of approval, if any are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease	
Steven J. Jand Steven J. Jand Title Engineer DATE 4/10/2011 (THIS SPACE FOR FEDERAL OR STATE OFFICE USE) Approved by Conditions of approval, if any are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon Title Office	Date
Steven J. Land Steven J. Land Title Engineer DATE 4/10/2011 (THIS SPACE FOR FEDERAL OR STATE OFFICE USE) Approved by Conditions of approval, if any are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any	Date
Steven J. Land Steven J. Land Title Engineer DATE 4/10/2011 (THIS SPACE FOR FEDERAL OR STATE OFFICE USE) Approved by Conditions of approval, if any are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any	Date
Steven J. Land Title Engineer DATE 4/10/2011 (THIS SPACE FOR FEDERAL OR STATE OFFICE USE) Approved by Conditions of approval, if any are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any State any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.	Date

DETAIL REPORT FROM PLUGGING THE ARCO CHAMBERS #1-AX DATE OF WORK DESCRIPTION 3/10/2011 Move In Rig, Rig broke down on way in had to two rig in to location 4 1/2 No Charge Nipple Down wellhead 3/11/2011 Pick tubing run in hole, tag up at 5204', Pull out of hole 3/14/2011 Run Cement Bond Log, Top of Cement behind 4 1/2" casing = 3040', Cut casing away from wellhead flange. Shoot casing off at 2982' 3/15/2011 Lay down 68 joints of 4 1/2" casing Run in hole with tubing to 5204 Per BLM Engineer (Jamie) a retainer must be set, circulation must be broken before any Plugging. This will cost us at least 2 days. And one extra wireline job and a retainer man 3/16/2011 Rig up cement pump, Pump 70 bbls water to break circulation, lost 20 bbls. waiting on more water, pump 15 bbls more broke circulation, Pumped 200 sacks of cement Pulled tubing out of hole, Let cement set for 3 hours, Run in hole to tag cement at 2775' Topped off with non-corrosive gel from 2775'-1000'. Pressure test 7" to 500 psi. Rig up Wireline Truck perforate 7" casing at 1020', Pump 65 bbls to try to break circulation Did not break circulation, set retainer at 1000'. Run in hole with stinger, shut down for night. Plug #1 set from 5204'-2775', Gel plug #1 2775'-1000' 3/17/2011 Sting into retainer, Pump 200 sacks of cement, can't break circulation, flush retainer and perforations. Let cement cure, Pump 100 sacks of cement no returns, Sting out of retainer spot 100 sacks of cement on top of retainer, prepare to cut and pull 7" casing to pump LCM behind the pipe to seal up lost circulation zone. When the 7" casing was run originally the top of the cement fell back to 1050 +/-, there was a lost circulation zone in this area when drilling but it was sealed up. The weight of the cement must have re-opened it when the 7" casing was run and cemented in place. Get welder on location to cut off well head to shoot 7" casing and cut it off in prep. To pull casing. Rig up wireline company cut csg at 826', string weight is about 22,000#, pulled 50,000# casing would not release, shut down for night. Plug #2 1000'-490', Gel Plug from 490' - 124', Plug #3, 124'-surface. 3/18/2011 Rig up wireline cut casing off at 630', Casing crew on location without back up tongs. Need welder to tack every collar. Called Weatherford talked to Gene, he said take the cost of the welder of their bill. Weatherford deducted travel time for leaveing backup tongs Pulled 630' of 7" casing, run in hole with 2 3/8" tubing, spot cement plug from 677' - 511'. Let cement set for 3 hours, Run in hole with tubing to tag cement, cement not set up enough, shut down over night. 3/19/2011 Tagged Cement plug at 574', Pumped a non corrosive plug to surface, broke circulation circulated gel to pit while setting cement plug from 550' to surface. Begin to rig down



A16 - 4

ENERGY OF THE ROCKIES LLC

97 North Main Street #1

Manti, Utah 84642 Steve@energyoftherockies.com

February 14, 2012

Ms. Rachel Medina

Division of Oil Gas and Minerals 1594 North West Temple Salt Lake City, Utah 84116

Re: Arco Chambers #1-AX well, P&A Sundry Notice, & Well Completion Report

Dear Marvin,

Enclosed is the Sundry Notice to P&A the Arco Chambers #1-AX well, and the Well Completion Report.

Nund

Sincerely

RECEIVED FEB 1 6 2012

DIV. OF OIL, GAS & MINING

Office: (435) 835-4248 Mobile: (435) 340-0557 Fax: (435) 835-4247